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(54) Title: METHODS OF DETECTING SOFT TISSUE SARCOMA, COMPOSITIONS AND METHODS OF SCREENING FOR SOFT TISSUE SARCOMA MODULATORS

METHODS OF DETECTING SOFT TISSUE SARCOMA, COMPOSITIONS AND METHODS OF SCREENING FOR SOFT TISSUE SARCOMA MODULATORS

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PRIORITY INFORMATION .

This application claims the benefit of U.S. Provisional Application No. 60/429,739, filed November 26, 2002.

FIELD OF THE INVENTION

The invention relates to the identification of nucleic acid and protein expression profiles and nucleic acids, products, and antibodies thereto that are involved in soft tissue sarcomas; and to the use of such expression profiles and compositions in diagnosis and therapy of such cancers. The invention further relates to methods for identifying and using agents and/or targets that modulate these cancers.

BACKGROUND OF THE INVENTION

Background on Soft Tissue Sarcomas is available, e.g., from Montgomery and Aaron (2001) Clinical Pathology of Soft-Tissue Tumors Marcel Dekker; ISBN: 0824702905; Brennan, et al. "Soft tissue sarcoma" pp 1738-1788 in DeVita, et al. (eds. 1997) Cancer: Principles and Practice of Oncology (5th ed.) Lippincott-Raven Philadelphia, PA; Pisters, et al. (2001) Cancer Management: A Multidisciplinary Approach (5th ed.) PRR; p 127-137 in American Joint Committee on Cancer (1992) Manual for Staging of Cancer (4th ed.) Lippincott, . Philadelphia; Schajowicz (1994) Tumors and Tumor-like Lesions of Bone: Pathology, Radiology and Treatment (2d ed.) Springer-Verlag, NY; Cotran, et al. (1999) Pathologic Basis of Disease Saunders; and various websites, e.g., NCI, Memorial Sloan-Kettering Cancer Center; cancerindex.com; cancersource.com; cancernetwork.com; and sarcoma.net.

Soft-tissue sarcomas are rare, representing only about 1 percent of all cancer cases. According to the American Cancer Society, approximately 8,700 new cases of soft-tissue sarcoma are diagnosed each year in adults and children in the United States. The age-adjusted incidence is 2 cases per 100,000 persons. There is a slight male predominance, with a male to female ratio of 11:10. The age distribution in

adult soft-tissue sarcoma studies is: <40 years, 20.7% of patients; 40-60 years, 27.6% of patients; > 60 years, 51.7% of patients.

In the United States, of the 8,700 new cases of soft-tissue sarcoma are identified annually, 4,400 patients die of the disease each year. The five-year survival percentages of soft tissue sarcomas range from 30% to 95% based on subtype and grade. The range for extremity sarcomas is 90%-95%, for trunk sarcomas 50%-75%, and for retroperitoneal lesions 30%-50%. In each of the three locations, higher-grade sarcomas have a poorer survival rate.

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In a survey of approximately 5,000 soft-tissue sarcoma patients admitted to Memorial Sloan-Kettering Cancer Center from 1982 to 2001: 32 percent of sarcomas were found in the lower extremities; 18 percent in the viscera (organs located within the chest and abdomen, such as the stomach, kidney, uterus, etc.); 15 percent in the abdominal and retroperitoneal region; 13 percent in the upper extremities; 8 percent in the trunk and 14 percent in other sites.

The histological subtypes of soft tissue sarcomas include malignant fibrous histiocytoma, liposarcoma, fibrosarcoma, synovial sarcoma, rhabdomyosarcoma, and leiomyosarcoma. They occur over 50% of the time in extremities; the remainder occur in the head and neck and retroperitoneum. In addition, many of these tumors dedifferentiate. This results in a variety of overlapping patterns, making uniform classification difficult. The current histopathologic classification is based on the putative cell of origin of each lesion. Such classification based on histogenesis is reproducible for the more differentiated tumors. However, as the degree of histologic differentiation declines, it becomes increasingly difficult to determine cellular origin.

Liposarcomas are malignant tumors that develop from fat tissue. They can develop anywhere in the body, but they most often grow in the retroperitoneum (tissue at the back of the abdominal cavity). Fat tissue may also originate from other locations, usually in the arms, legs, or body cavities.

Rhabdomyosarcomas are malignant tumors that resemble developing skeletal muscle. These tumors most commonly grow in the arms or legs, but can also develop in the head or neck area, as well as the urinary and reproductive organs.

Synovial sarcomas are malignant tumors made up of cells that resemble the cells in joints. ("Synovial cells" line the joints.) However, synovial sarcomas do not necessarily arise in a joint, and the name is probably a misnomer, since the cancer

cells are probably quite different from normal joint cells. Synovial sarcomas can arise in any location in the body, and they often appear in young adults.

Fibrosarcomas are cancer of the fibroblast-type cells in the body. Fibroblasts form scars and do other important connective functions. Fibrosarcomas often occur in tendons and ligaments (fibrous tissue), usually in the arms, legs, or trunk. Fibrosarcomas are rare, accounting for fewer than 7% of primary malignant bone tumors. The five- and ten-year survival rates after radical surgery have been reported at 28% and 21.8%, respectively.

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Chondrosarcomas are tumors of cells that form cartilage. Chondrosarcomas account for approximately 14% of malignant bone tumors. The incidence is greatest in individuals between 30 and 60 years of age, and among males. The most frequent sites of chondrosarcomas include the pelvic bone, long bones, scapula, and ribs. Less frequent sites include bones of the hand and foot, the nose, the maxilla, and the base of the skull. At present, chondrosarcomas remain nearly totally refractory to chemotherapeutic efforts inasmuch as chondrosarcomas usually have a poor blood supply. Consequently, drugs given intravenously generally do not reach the tumor in concentrations that are high enough to be therapeutically effective.

Malignant Fibrous Histiocytomas occur most commonly in the extremities (70-75%, with lower extremities accounting for 59% of cases), followed by the retroperitoneum. Tumors typically arise in deep fascia or skeletal muscle.

Leiomyosarcomas are malignant tumors that develop from smooth muscle tissue. They can arise anywhere in the body but the uterus or gastrointestinal tract are two relatively common locations.

In the majority of cases of soft-tissue sarcoma, no specific etiologic agent is identifiable. More commonly, an injury brings a preexisting neoplasm to the attention of the individual. However, a number of predisposing factors have been recognized.

Soft tissue sarcomas occur with greater frequency in patients with von Recklinghausen's disease (neurofibromatosis), Gardner's syndrome, Werner's syndrome, tuberous sclerosis, basal cell nevus syndrome, and among Li-Fraumeni kindreds (p53 mutations). The occurrences of bone tumors are also associated with hyperpara-thyroidism, chronic osteomyelitis, old bone infarct, osteochondromas, and enchondromas. Immunosuppressed patients such as renal transplant recipients and persons with autoimmunodeficiency syndrome (AIDS) have a higher risk for soft tissue sarcomas.

Soft-tissue sarcomas have been reported to originate in radiation fields following therapeutic radiation for a variety of solid tumors. Exposure to various chemicals in specific occupations or situations has been linked with the development of soft-tissue sarcoma. These include the phenoxy acetic acids (forestry and agriculture workers), chlorophenols (sawmill workers), Thorotrast (diagnostic x-ray technicians), vinyl chloride (individuals working with this gas, used in making plastics and as a refrigerant), and arsenic (vineyard workers).

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Soft-tissue sarcomas have been reported after previous exposure to alkylating chemotherapeutic agents, most commonly after treatment of pediatric acute lymphocytic leukemia.

Related conditions include Reactive pseudosarcomatous proliferans (non-neoplastic lesions that mimic sarcomas), nodular fascilitis (infiltrative or pseudosarcomatous fascilitis), proliferative fascilitis, proliferative myositis, myositis ossificans, malignant giant cell tumor, malignant lymphoma of bone (reticulum cell sarcoma), Ewing's tumor (Ewing's sarcoma) and Osteosarcoma (osteogenic sarcoma).

Signs and symptoms of soft-tissue sarcoma depend, in large part, on the anatomic site of origin. Since 50% of soft-tissue sarcomas arise in an extremity, the majority of patients present with a palpable soft-tissue mass. Pain at presentation is noted in only one-third of cases.

Because there are so many varied subtypes, and because their characteristics are so different, the risk and seriousness of soft-tissue sarcomas can vary widely. In some patients, sarcomas are minor, non-threatening tumors that can be cured with simple surgical excision. In others, the tumors can be large and much more aggressive, and require chemotherapy and radiation therapy as well as surgery. In addition, the capacity of sarcomas to metastasize to other sites also varies widely. If metastasis occurs, it can sometimes be cured with surgery, but at other times it can be a life-threatening problem. In general, bone and soft tissue tumors tend to involve contiguous tissue and muscle, and aggressively metastasize early to the lungs via the hematogenous route. Occasionally, soft tissue sarcomas can spread to regional lymph nodes.

The prognosis for patients with adult soft tissue sarcomas depends on several factors, including the patient's age and the size, histologic grade, and stage of the tumor. Factors associated with a poorer prognosis include age older than 60 years of age, tumors larger than 5 centimeters, or high-grade histology. While low-grade

tumors are usually curable by surgery alone, higher-grade sarcomas (as determined by the mitotic index and the presence of hemorrhage and necrosis) are associated with higher local treatment failure rates and increased metastatic potential. Some histological subtypes such as rhabdomyosarcomas, synovial sarcomas, and malignant histocytomas are considered poor prognosticators due to their high grade. If there is distant metastasis to the lymph nodes, lungs, or other bones, the prognosis is also lowered.

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Standard treatment options include: Surgical excision, surgical excision with preoperative or postoperative radiation therapy, and if the tumor is unresectable, high-dose preoperative radiation therapy may be used, followed by surgical resection and postoperative radiation therapy. Today, doctors often give chemotherapy (Doxorubicin and ifosfamide) before surgery to patients with large, fast-growing sarcomas.

The development of advanced surgical techniques (e.g., microvascular tissue transfer, bone and joint replacement, and vascular reconstruction) and the application of multimodality approaches have allowed most patients to retain a functional extremity without any compromise in survival. Limb-sparing surgery employing adjuvant radiation to facilitate maximal local control has become the standard approach for large (T2) extremity soft-tissue sarcomas. In most centers, upwards of 90% of patients are treated with limb-sparing approaches. Amputation is reserved as a last resort option for local control, and is used with the knowledge that it does not affect survival.

Improved methods of diagnosis and prognosis of soft tissue sarcomas and effective treatment would be desirable. Accordingly, provided herein are methods that can be used in earlier diagnosis and prognosis of such cancers. Further provided are methods that can be used to screen candidate therapeutic agents for the ability to modulate, e.g., treat, them. Additionally provided herein are molecular targets and compositions for therapeutic intervention in these and other metastatic cancers.

SUMMARY OF THE INVENTION

The present invention provides compositions and methods for detecting or modulating soft tissue sarcoma associated sequences.

In one aspect, the invention provides a method of detecting a sarcoma cancerassociated transcript in a cell in a patient, the method comprising contacting a

biological sample from the patient with a polynucleotide that selectively hybridized to a sequence at least 80% identical to a sequence as shown in Tables 1A-11C. In one embodiment, the biological sample is a tissue sample. In another embodiment, the biological sample comprises isolated nucleic acids, such as mRNA.

In another embodiment, the method further comprises the step of amplifying nucleic acids before the step of contacting the biological sample with the polynucleotide. Often, the polynucleotide comprises a sequence as shown in the Tables. The polynucleotide can be labeled, e.g., with a fluorescent label and can be immobilized on a solid surface.

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In other embodiments the patient is undergoing a therapeutic regimen to treat a disease associated with these sarcomas or the patient is suspected of having a sarcoma-associated disorder.

In another aspect, the invention comprises an isolated nucleic acid molecule consisting of a polynucleotide sequence as shown in the Tables. The nucleic acid molecule can be labeled, e.g., with a fluorescent or radioactive label.

In other aspects, the invention provides an expression vector comprising an isolated nucleic acid molecule consisting of a polynucleotide sequence as shown in the Tables or a host cell comprising the expression vector.

In another aspect, the invention provides an isolated polypeptide which is encoded by a nucleic acid molecule having polynucleotide sequence as shown in Tables 1A-11C.

In another embodiment, the invention provides an antibody that specifically binds a polypeptide which is encoded by a nucleotide sequence of the Tables. The antibody can be conjugated or fused to an effector component such as a fluorescent label, a toxin, or a radioisotope. In some embodiments, the antibody is an antibody fragment or a humanized antibody.

In another aspect, the invention provides a method of detecting a cell undergoing such a cancer in a biological sample from a patient, the method comprising contacting the biological sample with an antibody that specifically binds to a polypeptide encoded by a nucleotide sequence of Tables 1A-11C. In some embodiments, the antibody is further conjugated or fused to an effector component, e.g., a fluorescent label.

In another embodiment, the invention provides a method of detecting antibodies specific to a sarcoma in a patient, the method comprising contacting a

biological sample from the patient with a polypeptide which is encoded by a nucleotide sequence of Tables 1A-11C.

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The invention also provides a method of identifying a compound that modulates the activity of a sarcoma-associated polypeptide, the method comprising the steps of: (i) contacting the compound with a polypeptide encoded by a nucleotide sequence of Tables 1A-11C; and (ii) detecting an increase or a decrease in the activity of the polypeptide. In one embodiment, the polypeptide is encoded by a nucleotide sequence of Tables 1A-11C. In another embodiment, the polypeptide is expressed in a cell.

The invention also provides a method of identifying a compound that modulates the sarcoma, the method comprising steps of: (i) contacting the compound with a cell undergoing such cancer; and (ii) detecting an increase or a decrease in the expression of a polypeptide encoded by a nucleotide sequence of the Tables. In one embodiment, the detecting step comprises hybridizing a nucleic acid sample from the cell with a polynucleotide that selectively hybridizes to a sequence at least 80% identical to a sequence as shown in the Tables. In another embodiment, the method further comprises detecting an increase or decrease in the expression of a second sequence encoded by a nucleotide sequence of the Tables.

In another embodiment, the invention provides a method of inhibiting neoplastic properties in a cell that expresses a polypeptide at least 80% identical to a sequence encoded by a nucleotide sequence of Tables 1A-11C, the method comprising the step of contacting the cell with a therapeutically effective amount of an inhibitor of the polypeptide. In one embodiment, the polypeptide is encoded by a nucleotide sequence of Tables 1A-11C. In another embodiment, the inhibitor is an antibody.

Other aspects of the invention will become apparent by the following description of the invention.

Tables 1A-11C provide nucleotide sequence of genes that exhibit changes in expression levels as a function of time in tissue involved in cancer compared to normal or unaffected tissue.

DETAILED DESCRIPTION OF THE TABLES

Table 1A lists about 523 genes upregulated in chondrosarcoma relative to normal body tissues. These genes were selected from 59680 probesets on the

Eos/Affymetrix Hu03 GENECHIP® (DNA microchip) array. Gene expression data for each probeset obtained from this analysis was expressed as average intensity (AI), a normalized value reflecting the relative level of mRNA expression.

Table 2A lists about 763 genes upregulated in dermatofibrosarcoma protuberans relative to normal body tissues. These genes were selected from 59680 probesets on the Eos/Affymetrix Hu03 GENECHIP® array. Gene expression data for each probeset obtained from this analysis was expressed as average intensity (AI), a normalized value reflecting the relative level of mRNA expression.

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Table 3A lists about 625 genes upregulated in fibrosarcoma relative to normal body tissues. These genes were selected from 59680 probesets on the Eos/Affymetrix Hu03 GENECHIP® array. Gene expression data for each probeset obtained from this analysis was expressed as average intensity (AI), a normalized value reflecting the relative level of mRNA expression.

Table 4A lists about 906 genes upregulated in liposarcoma relative to normal body tissues. These genes were selected from 59680 probesets on the Eos/Affymetrix Hu03 GENECHIP® array. Gene expression data for each probeset obtained from this analysis was expressed as average intensity (AI), a normalized value reflecting the relative level of mRNA expression.

Table 5A lists about 595 genes upregulated in synovial sarcoma relative to normal body tissues. These genes were selected from 59680 probesets on the Eos/Affymetrix Hu03 GENECHIP® array. Gene expression data for each probeset obtained from this analysis was expressed as average intensity (AI), a normalized value reflecting the relative level of mRNA expression.

Table 6A lists about 977 genes upregulated in rhabdomyosarcoma relative to normal body tissues. These genes were selected from 59680 probesets on the Eos/Affymetrix Hu03 GENECHIP® array. Gene expression data for each probeset obtained from this analysis was expressed as average intensity (AI), a normalized value reflecting the relative level of mRNA expression.

Table 7A lists about 973 genes upregulated in soft tissue sarcomas relative to normal body tissues. These genes were selected from 59680 probesets on the Eos/Affymetrix Hu03 GENECHIP® array. Gene expression data for each probeset

obtained from this analysis was expressed as average intensity (AI), a normalized value reflecting the relative level of mRNA expression.

Table 8A lists about 712 genes upregulated in soft tissue sarcomas relative to normal soft tissues (muscle, skin, bone, adipose tissue). These genes were selected from 59680 probesets on the Eos/Affymetrix Hu03 GENECHIP® array. Gene expression data for each probeset obtained from this analysis was expressed as average intensity (AI), a normalized value reflecting the relative level of mRNA expression.

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Table 9A lists about 1078 genes upregulated in malignant fibrous histiocytoma relative to normal body tissues. These genes were selected from 59680 probesets on the Eos/Affymetrix Hu03 GENECHIP® array. Gene expression data for each probeset obtained from this analysis was expressed as average intensity (AI), a normalized value reflecting the relative level of mRNA expression.

Table 10A lists about 501 genes upregulated in soft tissue sarcoma relative to normal body tissues that are likely to encode proteins amenable to modulation by small molecules, peptides, or antibodies. These genes were selected from 59680 probesets on the Eos/Affymetrix Hu03 GENECHIP® array. Gene expression data for each probeset obtained from this analysis was expressed as average intensity (AI), a normalized value reflecting the relative level of mRNA expression. The protein products of these genes often contain one or more domains indicative of have oncogenic function or of transducing intracellular signals, or of being modulatable by small molecules, peptides, or antibodies (e.g. pkinase, death-domain, 7tm, phosphatase, or ion_transporter). Certain predicted protein domains are noted.

Tables 1B-11B list the accession numbers for those Pkey's lacking UnigeneID's for tables 1A – 11A, respectively. For each probeset we have listed the gene cluster number from which the oligonucleotides were designed. Gene clusters were compiled using sequences derived from Genbank ESTs and mRNAs. These sequences were clustered based on sequence similarity using Clustering and Alignment Tools (DoubleTwist, Oakland California). The Genbank accession numbers for sequences comprising each cluster are listed in the "Accession" column.

Tables 1C-11C list the genomic positioning for those Pkey's lacking Unigene ID's and accession numbers in tables 1A-11A, respectively. For each predicted exon.

genomic sequence source used for prediction is also listed and cross-referenced. Nucleotide locations of each predicted exon are also listed.

DESCRIPTION OF THE SPECIFIC EMBODIMENTS

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In accordance with the objects outlined above, the present invention provides novel methods for diagnosis and prognosis evaluation for soft tissue sarcomas cancer (sometimes referred to herein as sarcoma disorders or STSD), as well as methods for screening for compositions which modulate those cancers or similar disorders. Also provided are methods for treating these cancers and related conditions.

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In particular, identification of markers selectively expressed on these cancers allows for use of that expression in diagnostic, prognostic, or therapeutic methods. As such, the invention defines various compositions, e.g., nucleic acids, polypeptides, antibodies, and small molecule agonists/antagonists, which will be useful to selectively recognize those markers. For example, therapeutic methods may take the form of protein therapeutics which use the marker expression for selective localization or modulation of function (for those markers which have a causative disease effect), for vaccines, identification of binding partners, or antagonism, e.g., using antisense or RNAi. The markers may be useful for molecular characterization of subsets of soft tissue sarcoma cancer or related diseases, which subsets may actually require very different treatments. Moreover, the markers may also be important in related diseases to the specific cancers, e.g., which affect similar tissues in non-malignant diseases, or have similar mechanisms of induction/maintenance. Metastatic processes or characteristics may also be targeted. Diagnostic and prognostic uses are made available, e.g., to subset related but distinct diseases, or to determine treatment strategy. The detection methods may be based upon nucleic acid, e.g., PCR or hybridization techniques, or protein, e.g., ELISA, imaging, IHC, etc. The diagnosis may be qualitative or quantitative, and may detect increases or decreases in expression levels.

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Related conditions to these soft tissue sarcomas include, e.g., soft tissue tumors (e.g., fibrosarcoma, liposarcoma, leiomyosarcoma, histiocytoma, fibrohistiocytic sarcoma), smooth muscle tumors (e.g., rhabdomyoma, rhabdomyosarcoma) tumors of the blood and lymph vessels (e.g., angiosarcoma, lymphangiosarcoma, Kaposi's sarcoma), perivascular tumors (e.g., glomus tumors, hemangiopericytoma), synovial tumors (e.g., mesothelioma), neural tumors (e.g.,

neurofibroma, neurofibrosarcoma, malignant peripheral nerve sheath tumors, granular cell tumors, plexosarcoma, ganglioneuroblastoma, neuroepithelioma, extraskeletal Ewing's sarcoma, schwannoma, neuroma, ganglioneuroma), paraganglioma, extraskeletal cartilaginous and osseous tumors (e.g., chondrosarcoma, osteosarcoma), pluripotential mesenchymal tumors, epitheliod sarcomas, rhabdoid tumors, desmoplastic small cell tumors, and alveolar sarcomas. These markers may be similarly useful for addressing these related conditions, e.g., diagnosis, therapy, prognosis, etc.

Tables 1A-11C provide unigene cluster identification numbers for the nucleotide sequence of genes that exhibit increased or decreased expression in soft tissue sarcoma cancer samples. The tables also provide an exemplar accession number that provides a nucleotide sequence that is part of the unigene cluster.

Definitions

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15 The term "soft tissue sarcoma cancer protein" or "soft tissue sarcoma cancer polynucleotide" refers to nucleic acid and polypeptide polymorphic variants, alleles, mutants, and interspecies homologs that: (1) have a nucleotide sequence that has greater than about 60% nucleotide sequence identity, 65%, 70%, 75%, 80%, 85%, 90%, preferably 92%, 94%, 96%, 97%, 98%, or 99% or greater nucleotide sequence identity, preferably over a region of over a region of at least about 25, 50, 100, 200, 20 500, 1000, or more nucleotides, to a nucleotide sequence of or associated with a unigene cluster of Tables 1A-11C; (2) bind to antibodies, e.g., polyclonal antibodies, raised against an immunogen comprising an amino acid sequence of Tables 1A-11C, and conservatively modified variants thereof; (3) specifically hybridize under stringent hybridization conditions to an anti-sense strand corresponding to a nucleic 25 acid sequence of Tables 1A-11C and conservatively modified variants thereof; or (4) have an amino acid sequence that has greater than about 60% amino acid sequence identity, 65%, 70%, 75%, 80%, 85%, preferably 90%, 91%, 93%, 95%, 97%, 98%, or 99% or greater amino sequence identity, preferably over a region of over a region of at least about 25, 50, 100, 200, 500, 1000, or more amino acids, to an amino acid 30 sequence encoded by a nucleotide sequence of or associated with a unigene cluster of Tables 1A-11C. A polynucleotide or polypeptide sequence is typically from a mammal including, but not limited to, primate, e.g., human; rodent, e.g., rat, mouse, hamster; cow, pig, horse, sheep, or other mammal. A "soft tissue sarcoma cancer

polypeptide" and a "soft tissue sarcoma cancer polynucleotide," include both naturally occurring or recombinant forms.

A "full length" soft tissue sarcoma cancer protein or nucleic acid refers to a soft tissue sarcoma cancer polypeptide or polynucleotide sequence, or a variant thereof, that contains the elements normally contained in one or more naturally occurring, wild type soft tissue sarcoma cancer polynucleotide or polypeptide sequences. The "full length" may be prior to, or after, various stages of post-translation processing or splicing, including alternative splicing.

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"Biological sample" as used herein is a sample of biological tissue or fluid that

10 contains nucleic acids or polypeptides, e.g., of a cancer protein. Such samples
include, but are not limited to, tissue isolated from primates, e.g., humans, or rodents,
e.g., mice, and rats. Biological samples may also include sections of tissues such as
biopsy and autopsy samples, and frozen sections taken for histologic purposes. A
biological sample is typically obtained from a eukaryotic organism, most preferably a

15 mammal such as a primate e.g., chimpanzee or human; cow; dog; cat; a rodent, e.g.,
guinea pig, rat, mouse; rabbit; or a bird; reptile; or fish. Livestock and domestic
animals are of interest.

"Providing a biological sample" means to obtain a biological sample for use in methods described in this invention. Most often, this will be done by removing a sample of cells from a mammal, such as a human or animal, but can also be accomplished by using previously isolated cells (e.g., isolated by another person, at another time, and/or for another purpose), or by performing the methods of the invention in vivo. Archival tissues, having treatment or outcome history, will be particularly useful.

The terms "identical" or "percent identity," in the context of two or more nucleic acids or polypeptide sequences, refer to two or more sequences or subsequences that are the same or have a specified percentage of amino acid residues or nucleotides that are the same (e.g., about 70% identity, preferably 75%, 80%, 85%, 90%, 91%, 93%, 95%, 97%, 98%, 99%, or higher identity over a specified region, when compared and aligned for maximum correspondence over a comparison window or designated region) as measured using a BLAST or BLAST 2.0 sequence comparison algorithms with default parameters described below, or by manual alignment and visual inspection (see, e.g., NCBI web site or the like). Such sequences are then said to be "substantially identical." This definition also refers to.

or may be applied to, the compliment of a test sequence. The definition also includes sequences that have deletions and/or additions, as well as those that have substitutions. As described below, the algorithms can account for gaps and the like. Preferably, identity exists over a region that is at least about 25 amino acids or nucleotides in length, or more preferably over a region that is 50-100 amino acids or nucleotides in length.

For sequence comparison, typically one sequence acts as a reference sequence, to which test sequences are compared. When using a sequence comparison algorithm, test and reference sequences are entered into a computer, subsequence coordinates are designated, if necessary, and sequence algorithm program parameters are designated. Preferably, default program parameters can be used, or alternative parameters can be designated. The sequence comparison algorithm then calculates the percent sequence identities for the test sequences relative to the reference sequence, based on the program parameters.

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A "comparison window", as used herein, includes reference to a segment of one of the number of contiguous positions selected from the group consisting of from about 20-600, usually about 50-200, more usually about 100-150 in which a sequence may be compared to a reference sequence of the same number of contiguous positions after the two sequences are optimally aligned. Methods of alignment of sequences for comparison are well-known. Optimal alignment of sequences for comparison can be conducted, e.g., by the local homology algorithm of Smith and Waterman (1981) Adv. Appl. Math. 2:482-489, by the homology alignment algorithm of Needleman and Wunsch (1970) J. Mol. Biol. 48:443-453, by the search for similarity method of Pearson and Lipman (1988) Proc. Nat'l Acad. Sci. USA 85:2444-2448, by computerized implementations of these algorithms (GAP, BESTFIT, FASTA, and TFASTA in the Wisconsin Genetics Software Package, Genetics Computer Group, 575 Science Dr., Madison, WI), or by manual alignment and visual inspection (see, e.g., Ausubel, et al. (eds. 1995 and supplements) Current Protocols in Molecular Biology Wiley).

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Examples of algorithms that are suitable for determining percent sequence identity and sequence similarity include the BLAST and BLAST 2.0 algorithms, which are described in Altschul, et al. (1977) Nuc. Acids Res. 25:3389-3402; and Altschul, et al. (1990) J. Mol. Biol. 215:403-410. BLAST and BLAST 2.0 are used, with the parameters described herein, to determine percent sequence identity for the

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nucleic acids and proteins of the invention. Software for performing BLAST analyses is publicly available through the National Center for Biotechnology Information. This algorithm involves first identifying high scoring sequence pairs (HSPs) by identifying short words of length W in the query sequence, which either match or satisfy some positive-valued threshold score T when aligned with a word of the same length in a database sequence. T is referred to as the neighborhood word score threshold (Altschul, et al., supra). These initial neighborhood word hits act as seeds for initiating searches to find longer HSPs containing them. The word hits are extended in both directions along each sequence for as far as the cumulative alignment score can be increased. Cumulative scores are calculated using, for nucleotide sequences. the parameters M (reward score for a pair of matching residues; always > 0) and N (penalty score for mismatching residues; always < 0). For amino acid sequences, a scoring matrix is used to calculate the cumulative score. Extension of the word hits in each direction are halted when: the cumulative alignment score falls off by the quantity X from its maximum achieved value; the cumulative score goes to zero or below, due to the accumulation of one or more negative-scoring residue alignments; or the end of either sequence is reached. The BLAST algorithm parameters W, T, and X determine the sensitivity and speed of the alignment. The BLASTN program (for nucleotide sequences) uses as defaults a wordlength (W) of 11, an expectation (E) of 10, M=5, N=-4 and a comparison of both strands. For amino acid sequences, the BLASTP program uses as defaults a wordlength of 3, and expectation (E) of 10, and the BLOSUM62 scoring matrix (see Henikoff and Henikoff (1989) Proc. Nat'l Acad. Sci. USA 89:10915-919) alignments (B) of 50, expectation (E) of 10, M=5, N=-4, and a comparison of both strands.

The BLAST algorithm also performs a statistical analysis of the similarity between two sequences. See, e.g., Karlin and Altschul (1993) Proc. Nat'l Acad. Sci. USA 90:5873-5787. One measure of similarity provided by the BLAST algorithm is the smallest sum probability (P(N)), which provides an indication of the probability by which a match between two nucleotide or amino acid sequences would occur by chance. For example, a nucleic acid is considered similar to a reference sequence if the smallest sum probability in a comparison of the test nucleic acid to the reference nucleic acid is less than about 0.2, more preferably less than about 0.01, and most preferably less than about 0.001. Log values may be negative large numbers, e.g., 5, 10, 20, 30, 40, 40, 70, 90, 110, 150, 170, etc.

An indication that two nucleic acid sequences or polypeptides are substantially identical is that the polypeptide encoded by the first nucleic acid is immunologically cross reactive with the antibodies raised against the polypeptide encoded by the second nucleic acid, as described below. Thus, a polypeptide is typically substantially identical to a second polypeptide, e.g., where the two peptides differ only by conservative substitutions. Another indication that two nucleic acid sequences are substantially identical is that the two molecules or their complements hybridize to each other under stringent conditions, as described below. Yet another indication that two nucleic acid sequences are substantially identical is that the same primers can be used to amplify the sequences.

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A "host cell" is a naturally occurring cell or a transformed cell that contains an expression vector and supports the replication or expression of the expression vector. Host cells may be cultured cells, explants, cells in vivo, and the like. Host cells may be prokaryotic cells such as E. coli, or eukaryotic cells such as yeast, insect, amphibian, or mammalian cells, e.g., CHO, HeLa, and the like (see, e.g., the American Type Culture Collection catalog).

The terms "isolated," "purified," or "biologically pure" refer to material that is substantially or essentially free from components that normally accompany it as found in its native state. Purity and homogeneity are typically determined using analytical chemistry techniques such as polyacrylamide gel electrophoresis or high performance liquid chromatography. A protein or nucleic acid that is the predominant species present in a preparation is substantially purified. In particular, an isolated nucleic acid is separated from some open reading frames that naturally flank the gene and encode proteins other than protein encoded by the gene. The term "purified" in some embodiments denotes that a nucleic acid or protein gives rise to essentially one band in an electrophoretic gel. Preferably, it means that the nucleic acid or protein is at least about 85% pure, more preferably at least 95% pure, and most preferably at least 99% pure. "Purify" or "purification" in other embodiments means removing at least one contaminant or component from the composition to be purified. In this sense, purification does not require that the purified compound be homogeneous, e.g., 100% pure.

The terms "polypeptide," "peptide," and "protein" are used interchangeably herein to refer to a polymer of amino acid residues. The terms apply to amino acid polymers in which one or more amino acid residue is an artificial chemical mimetic of

a corresponding naturally occurring amino acid, as well as to naturally occurring amino acid polymers and non-naturally occurring amino acid polymers.

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The term "amino acid" refers to naturally occurring and synthetic amino acids, as well as amino acid analogs and amino acid mimetics that function in a manner similar to the naturally occurring amino acids. Naturally occurring amino acids are those encoded by the genetic code, as well as those amino acids that are later modified, e.g., hydroxyproline, γ-carboxyglutamate, and O-phosphoserine. Amino acid analogs refers to compounds that have the same basic chemical structure as a naturally occurring amino acid, e.g., an α carbon that is bound to a hydrogen, a carboxyl group, an amino group, and an R group, e.g., homoserine, norleucine, methionine sulfoxide, methionine methyl sulfonium. Such analogs have modified R groups (e.g., norleucine) or modified peptide backbones, but retain the same basic chemical structure as a naturally occurring amino acid. Amino acid mimetics refers to chemical compounds that have a structure that is different from the general chemical structure of an amino acid, but that functions in a manner similar to a naturally occurring amino acid.

Amino acids may be referred to herein by either their commonly known three letter symbols or by the one-letter symbols recommended by the IUPAC-IUB Biochemical Nomenclature Commission. Nucleotides, likewise, may be referred to by their commonly accepted single-letter codes.

"Conservatively modified variants" applies to both amino acid and nucleic acid sequences. With respect to particular nucleic acid sequences, conservatively modified variants refers to those nucleic acids which encode identical or essentially identical amino acid sequences, or where the nucleic acid does not encode an amino acid sequence, to essentially identical sequences. Because of the degeneracy of the genetic code, a large number of functionally identical nucleic acids encode a given protein. For instance, the codons GCA, GCC, GCG, and GCU all encode the amino acid alanine. Thus, at a position where an alanine is specified by a codon, the codon can be altered to one of the corresponding codons described without altering the encoded polypeptide. Such nucleic acid variations are "silent variations," which are one species of conservatively modified variations. Every nucleic acid sequence herein which encodes a polypeptide also describes every possible silent variation of the nucleic acid. In certain contexts each codon in a nucleic acid (except AUG, which is ordinarily the only codon for methionine, and TGG, which is ordinarily the only

codon for tryptophan) can be modified to yield a functionally similar molecule. Accordingly, a silent variation of a nucleic acid which encodes a polypeptide is implicit in a described sequence with respect to the expression product, but not necessarily with respect to actual probe sequences.

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As to amino acid sequences, it will be recognized that individual substitutions, deletions, or additions to a nucleic acid, peptide, polypeptide, or protein sequence which alters, adds, or deletes a single amino acid or a small percentage of amino acids in the encoded sequence is a "conservatively modified variant" particularly where the alteration results in the substitution of an amino acid with a chemically similar amino acid. Conservative substitution tables providing functionally similar amino acids are well known. Such conservatively modified variants are in addition to and do not exclude polymorphic variants, interspecies homologs, and alleles of the invention. Typically conservative substitutions include for one another: 1) Alanine (A), Glycine (G); 2) Aspartic acid (D), Glutamic acid (E); 3) Asparagine (N), Glutamine (Q); 4) Arginine (R), Lysine (K); 5) Isoleucine (I), Leucine (L), Methionine (M), Valine (V); 6) Phenylalanine (F), Tyrosine (Y), Tryptophan (W); 7) Serine (S), Threonine (T); and 8) Cysteine (C), Methionine (M). See, e.g., Creighton (1984) Proteins: Structure and Molecular Properties Freeman).

Macromolecular structures such as polypeptide structures can be described in 20 terms of various levels of organization. For a general discussion of this organization, see, e.g., Alberts, et al. (eds. 2001) Molecular Biology of the Cell (4th ed.) Garland: and Cantor and Schimmel (1980) Biophysical Chemistry Part I: The Conformation of Biological Macromolecules Freeman. "Primary structure" refers to the amino acid sequence of a particular peptide. "Secondary structure" refers to locally ordered, three 25 dimensional structures within a polypeptide. These structures are commonly known as domains. Domains are portions of a polypeptide that form a compact unit of the polypeptide and are typically 25 to approximately 500 amino acids long. Typical domains are made up of sections of lesser organization such as stretches of \beta-sheet and α-helices. "Tertiary structure" refers to the complete three dimensional structure 30 of a polypeptide monomer. "Quaternary structure" refers to the three dimensional structure formed, usually by the noncovalent association of independent tertiary units. Anisotropic terms are also known as energy terms.

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"Nucleic acid" or "oligonucleotide" or "polynucleotide" or grammatical equivalents used herein means at least two nucleotides covalently linked together. Oligonucleotides are typically from about 5, 6, 7, 8, 9, 10, 12, 15, 25, 30, 40, 50, or more nucleotides in length, up to about 100 nucleotides in length. Nucleic acids and polynucleotides are polymers, including longer lengths, e.g., 200, 300, 500, 1000, 2000, 3000, 5000, 7000, 10,000, etc. A nucleic acid of the present invention will generally contain phosphodiester bonds, although in some cases, nucleic acid analogs are included that may have at least one different linkage, e.g., phosphoramidate, phosphorothioate, phosphorodithioate, or O-methylphophoroamidite linkages (see Eckstein (1992) Oligonucleotides and Analogues: A Practical Approach Oxford Univ. Press); and peptide nucleic acid backbones and linkages. Other analog nucleic acids include those with positive backbones; non-ionic backbones, and non-ribose backbones, including those described in US Patent Nos. 5,235,033 and 5,034,506, and Chapters 6 and 7 of Sanghvi and Cook (eds. 1994) Carbohydrate Modifications in Antisense Research ACS Symposium Series 580. Nucleic acids containing one or more carbocyclic sugars are also included within one definition of nucleic acids. Modifications of the ribose-phosphate backbone may be done for a variety of reasons, e.g., to increase the stability and half-life of such molecules in physiological environments or as probes on a biochip. Mixtures of naturally occurring nucleic acids and analogs can be made; alternatively, mixtures of different nucleic acid analogs, and mixtures of naturally occurring nucleic acids and analogs may be made.

A variety of references disclose such nucleic acid analogs, including, e.g., phosphoramidate (Beaucage, et al. (1993) Tetrahedron 49:1925-1963 and references therein; Letsinger (1970) J. Org. Chem. 35:3800-3803; Sprinzl, et al. (1977) Eur. J. Biochem. 81:579-589; Letsinger, et al. (1986) Nuc. Acids Res. 14:3487-499; Sawai, et al. (1984) Chem. Lett. 805, Letsinger, et al. (1988) J. Am. Chem. Soc. 110:4470-4471; and Pauwels, et al. (1986) Chemica Scripta 26:141-149), phosphorothioate (Mag, et al. (1991) Nuc. Acids Res. 19:1437-441; and US Patent No. 5,644,048), phosphorodithioate (Brill, et al. (1989) J. Am. Chem. Soc. 111:2321-322), Omethylphophoroamidite linkages (see Eckstein (1992) Oligonucleotides and Analogues: A Practical Approach, Oxford Univ. Press), and peptide nucleic acid backbones and linkages (see Egholm (1992) J. Am. Chem. Soc. 114:1895-1897; Meier, et al. (1992) Chem. Int. Ed. Engl. 31:1008-1010; Nielsen (1993) Nature 365:566-568; and Carlsson, et al. (1996) Nature 380:207). Other analog nucleic acids

include those with positive backbones (Denpcy, et al. (1995) Proc. Nat'l Acad. Sci. USA 92:6097-101); non-ionic backbones (US Patent Nos. 5,386,023, 5,637,684, 5,602,240, 5,216,141, and 4,469,863; Kiedrowski, et al. (1991) Angew. Chem. Intl. Ed. English 30:423-426; Letsinger, et al. (1988) J. Am. Chem. Soc. 110:4470-471; Jung, et al. (1994) Nucleoside and Nucleotide 13:1597-xxx; Chapters 2 and 3 in 5 Sanghvi and Cook (eds. 1994) Carbohydrate Modifications in Antisense Research ACS Symposium Series 580; Mesmaeker, et al. (1994) Bioorganic and Medicinal Chem. Lett. 4:395-398; Jeffs, et al. (1994) J. Biomolecular NMR 34:17; and Horn, et al. (1996) Tetrahedron Lett. 37:743-xxx) and non-ribose backbones, including those described in US Patent Nos. 5,235,033 and 5,034,506, and Chapters 6 and 7 in 10 Sanghyi and Cook (eds. 1994) Carbohydrate Modifications in Antisense Research ACS Symposium Series 580. Nucleic acids containing one or more carbocyclic sugars are also included within one definition of nucleic acids. See Jenkins, et al. (1995) Chem. Soc. Rev. pp 169-176. Several nucleic acid analogs are described in Rawls (page 35, June 2, 1997) C&E News. 15

Particularly useful are peptide nucleic acids (PNA) which includes peptide nucleic acid analogs. These backbones are substantially non-ionic under neutral conditions, in contrast to the highly charged phosphodiester backbone of naturally occurring nucleic acids. This results in at least two advantages. The PNA backbone exhibits improved hybridization kinetics. PNAs have larger changes in the melting temperature (T_m) for mismatched versus perfectly matched basepairs. DNA and RNA typically exhibit a 2-4° C drop in T_m for an internal mismatch. With the non-ionic PNA backbone, the drop is closer to about 7-9° C. Similarly, due to their non-ionic nature, hybridization of the bases attached to these backbones is relatively insensitive to salt concentration. In addition, PNAs are not degraded by cellular enzymes, and thus can be more stable.

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The nucleic acids may be single stranded or double stranded, as specified, or contain portions of both double stranded or single stranded sequence. The depiction of a single strand also defines the sequence of the complementary strand; thus the sequences described herein also provide the complement of the sequence. The nucleic acid may be DNA, both genomic and cDNA, RNA, or a hybrid, where the nucleic acid may contain combinations of deoxyribo- and ribo-nucleotides, and combinations of bases, including uracil, adenine, thymine, cytosine, guanine, inosine,

xanthine hypoxanthine, isocytosine, isoguanine, etc. "Transcript" typically refers to a naturally occurring RNA, e.g., a pre-mRNA, hnRNA, or mRNA. As used herein, the term "nucleoside" includes nucleotides and nucleoside and nucleotide analogs, and modified nucleosides such as amino modified nucleosides. In addition, "nucleoside" includes non-naturally occurring analog structures. Thus, e.g., the individual units of a peptide nucleic acid, each containing a base, are referred to herein as a nucleoside.

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A "label" or a "detectable moiety" is a composition detectable by spectroscopic, photochemical, biochemical, immunochemical, physiological, chemical, or other physical means. Useful labels include ³²P, fluorescent dyes, electron-dense reagents, enzymes (e.g., as commonly used in an ELISA), biotin, digoxigenin, or haptens and proteins which can be made detectable, e.g., by incorporating a radiolabel into the peptide or used to detect antibodies specifically reactive with the peptide. The labels may be incorporated into the soft tissue sarcoma cancer nucleic acids, proteins, and antibodies. Many methods known for conjugating the antibody to the label may be employed. See, e.g., Hunter, et al. (1962) Nature 144:945; David, et al. (1974) Biochemistry 13:1014-1021; Pain, et al. (1981) J. Immunol. Meth. 40:219-230; and Nygren (1982) J. Histochem. and Cytochem.

An "effector" or "effector moiety" or "effector component" is a molecule that is bound (or linked, or conjugated), either covalently, through a linker or a chemical bond, or noncovalently, through ionic, van der Waals, electrostatic, or hydrogen bonds, to an antibody. The "effector" can be a variety of molecules including, e.g., detection moieties including radioactive compounds, fluorescent compounds, enzymes or substrates, tags such as epitope tags, toxins; activatable moieties, chemotherapeutic agents; chemoattractant or immunomodulating entities; lipases; antibiotics; or radioisotopes, e.g., emitting "hard" beta radiation.

A "labeled nucleic acid probe or oligonucleotide" is one that is bound, e.g., covalently, through a linker or a chemical bond, or noncovalently, through ionic, van der Waals, electrostatic, or hydrogen bonds to a label such that the presence of the probe may be detected by detecting the presence of the label bound to the probe. Alternatively, method using high affinity interactions may achieve the same results where one of a pair of binding partners binds to the other, e.g., biotin, streptavidin.

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As used herein a "nucleic acid probe or oligonucleotide" is a nucleic acid capable of binding to a target nucleic acid of complementary sequence through one or more types of chemical bonds, usually through complementary base pairing, usually through hydrogen bond formation. As used herein, a probe may include natural (e.g., A, C, G, or T) or modified bases (7-deazaguanosine, inosine, etc.). In addition, the bases in a probe may be joined by a linkage other than a phosphodiester bond. preferably one that does not functionally interfere with hybridization. Thus, e.g., probes may be peptide nucleic acids in which the constituent bases are joined by peptide bonds rather than phosphodiester linkages. Probes may bind target sequences lacking complete complementarity with the probe sequence depending upon the stringency of the hybridization conditions. The probes are preferably directly labeled, e.g., with isotopes, chromophores, lumiphores, chromogens, or indirectly labeled, e.g., with biotin to which a streptavidin complex may later bind. By assaying for the presence or absence of the probe, one can detect the presence or absence of the select sequence or subsequence. Diagnosis or prognosis may be based at the genomic level, or at the level of RNA or protein expression.

The term "recombinant" when used with reference, e.g., to a cell, or nucleic acid, protein, or vector, indicates that the cell, nucleic acid, protein, or vector, has been modified by the introduction of a heterologous nucleic acid or protein or the alteration of a native nucleic acid or protein, or that the cell is derived from a cell so modified. Thus, e.g., recombinant cells express genes that are not found within the native (non-recombinant) form of the cell or express native genes that are otherwise abnormally expressed, under expressed, or not expressed. By the term "recombinant nucleic acid" herein is meant nucleic acid, originally formed in vitro, in general, by the manipulation of nucleic acid, e.g., using polymerases and endonucleases, in a form not normally found in nature. In this manner, operable linkage of different sequences is achieved. Thus an isolated nucleic acid, in a linear form, or an expression vector formed in vitro by ligating DNA molecules that are not normally joined, are both considered recombinant for the purposes of this invention. It is understood that once a recombinant nucleic acid is made and reintroduced into a host cell or organism, it will replicate non-recombinantly, e.g., using the in vivo cellular machinery of the host cell rather than in vitro manipulations; however, such nucleic acids, once produced recombinantly, although subsequently replicated nonrecombinantly, are still considered recombinant for the purposes of the invention.

Similarly, a "recombinant protein" is a protein made using recombinant techniques, e.g., through the expression of a recombinant nucleic acid as depicted above.

The term "heterologous" when used with reference to portions of a nucleic acid indicates that the nucleic acid comprises two or more subsequences that are not found in the same relationship to each other in nature. For instance, the nucleic acid is typically recombinantly produced, having two or more sequences from unrelated genes arranged to make a new functional nucleic acid, e.g., a promoter from one source and a coding region from another source. Similarly, a heterologous protein indicates that the protein comprises two or more subsequences that are not found in the same relationship to each other in nature (e.g., a fusion protein).

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A "promoter" is defined as an array of nucleic acid control sequences that direct transcription of a nucleic acid. As used herein, a promoter includes necessary nucleic acid sequences near the start site of transcription, such as, in the case of a polymerase II type promoter, a TATA element. A promoter also optionally includes distal enhancer or repressor elements, which can be located as much as several thousand base pairs from the start site of transcription. A "constitutive" promoter is a promoter that is active under most environmental and developmental conditions. An "inducible" promoter is a promoter that is active under environmental or developmental regulation. The term "operably linked" refers to a functional linkage between a nucleic acid expression control sequence (such as a promoter, or array of transcription factor binding sites) and a second nucleic acid sequence, wherein the expression control sequence directs transcription of the nucleic acid corresponding to the second sequence.

An "expression vector" is a nucleic acid construct, generated recombinantly or synthetically, with a series of specified nucleic acid elements that permit transcription of a particular nucleic acid in a host cell. The expression vector can be part of a plasmid, virus, or nucleic acid fragment. Typically, the expression vector includes a nucleic acid to be transcribed in operable linkage to a promoter.

The phrase "selectively (or specifically) hybridizes to" refers to the binding, duplexing, or hybridizing of a molecule only to a particular nucleotide sequence under stringent hybridization conditions when that sequence is present in a complex mixture (e.g., total cellular or library DNA or RNA).

The phrase "stringent hybridization conditions" refers to conditions under which a probe will hybridize to its target subsequence, typically in a complex mixture

of nucleic acids, but to essentially no other sequences. Stringent conditions are sequence-dependent and will be different in different circumstances. Longer sequences hybridize specifically at higher temperatures. An extensive guide to the hybridization of nucleic acids is found in "Overview of principles of hybridization and the strategy of nucleic acid assays" in Tijssen (1993) Hybridization with Nucleic 5 Probes (Laboratory Techniques in Biochemistry and Molecular Biology) (vol. 24) Elsevier. Generally, stringent conditions are selected to be about 5-10° C lower than the thermal melting point (T_m) for the specific sequence at a defined ionic strength pH. The T_m is the temperature (under defined ionic strength, pH, and nucleic 10 concentration) at which 50% of the probes complementary to the target hybridize to the target sequence at equilibrium (as the target sequences are present in excess, at T_m, 50% of the probes are occupied at equilibrium). Stringent conditions will be those in which the salt concentration is less than about 1.0 M sodium ion, typically about 0.01 to 1.0 M sodium ion concentration (or other salts) at pH 7.0 to 8.3 and the temperature is at least about 30° C for short probes (e.g., 10-50 nucleotides) and at 15 least about 60° C for long probes (e.g., greater than about 50 nucleotides). Stringent conditions may also be achieved with the addition of destabilizing agents such as formamide. For selective or specific hybridization, a positive signal is at least two times background, preferably 10 times background hybridization. Exemplary stringent hybridization conditions can be as following: 50% formamide, 5x SSC, and 20 1% SDS, incubating at 42° C, or, 5x SSC, 1% SDS, incubating at 65° C, with wash in 0.2x SSC, and 0.1% SDS at 65° C. For PCR, a temperature of about 36° C is typical for low stringency amplification, although annealing temperatures may vary between about 32-48° C depending on primer length. For high stringency PCR amplification, 25 a temperature of about 62° C is typical, although high stringency annealing temperatures can range from about 50-65° C, depending on the primer length and specificity. Typical cycle conditions for both high and low stringency amplifications include a denaturation phase of 90-95° C for 30-120 sec, an annealing phase lasting 30-120 sec, and an extension phase of about 72° C for 1-2 min. Protocols and 30 guidelines for low and high stringency amplification reactions are provided, e.g., in Innis, et al. (1990) PCR Protocols: A Guide to Methods and Applications, Academic Press, NY.

Nucleic acids that do not hybridize to each other under stringent conditions are still substantially identical if the polypeptides which they encode are substantially identical. This occurs, e.g., when a copy of a nucleic acid is created using the maximum codon degeneracy permitted by the genetic code. In such cases, the nucleic acids typically hybridize under moderately stringent hybridization conditions.

Exemplary "moderately stringent hybridization conditions" include a hybridization in a buffer of 40% formamide, 1 M NaCl, 1% SDS at 37° C, and a wash in 1X SSC at 45° C. A positive hybridization is typically at least twice background. Alternative hybridization and wash conditions can be utilized to provide conditions of similar stringency. Additional guidelines for determining hybridization parameters are provided in numerous references, e.g., Ausubel, et al. (eds. 1991 and supplements) Current Protocols in Molecular Biology Wiley.

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The phrase "functional effects" in the context of assays for testing compounds that modulate activity of a soft tissue sarcoma cancer protein includes the determination of a parameter that is indirectly or directly under the influence of the cancer protein, e.g., a physiological, functional, physical, or chemical effect, such as the ability to increase or decrease soft tissue sarcoma cancer. It includes ligand binding activity; cell viability; cell growth on soft agar; anchorage dependence; contact inhibition and density limitation of growth; cellular proliferation; cellular transformation; growth factor or serum dependence; tumor specific marker levels; invasiveness into Matrigel; tumor growth and metastasis in vivo; mRNA and protein expression in cells undergoing metastasis; and other characteristics of cancer cells. "Functional effects" include in vitro, in vivo, and ex vivo activities.

By "determining the functional effect" is meant assaying for a compound that increases or decreases a parameter that is indirectly or directly under the influence of a soft tissue sarcoma cancer protein sequence, e.g., physiological, functional, enzymatic, physical, or chemical effects. Such functional effects can be measured, e.g., changes in spectroscopic characteristics (e.g., fluorescence, absorbance, refractive index), hydrodynamic (e.g., shape), chromatographic, or solubility properties for the protein, measuring inducible markers or transcriptional activation of the cancer protein; measuring binding activity or binding assays, e.g., binding to antibodies or other ligands, and measuring growth, cellular proliferation, cell viability, cellular transformation, growth factor or serum dependence, tumor specific marker levels, invasiveness into Matrigel, tumor growth and metastasis in vivo, mRNA and

protein expression, and other characteristics of cancer cells. The functional effects can be evaluated by many means, e.g., microscopy for quantitative or qualitative measures of alterations in morphological features, measurement of RNA stability, identification of downstream or reporter gene expression (CAT, luciferase, β-gal, GFP and the like), e.g., via chemiluminescence, fluorescence, colorimetric reactions, antibody binding, inducible markers, and ligand binding assays.

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"Inhibitors", "activators", and "modulators" of soft tissue sarcoma cancer polynucleotide and polypeptide sequences are used to refer to activating, inhibitory, or modulating molecules identified using in vitro and in vivo assays of cancer polynucleotide and polypeptide sequences. Inhibitors are compounds that, e.g., bind to, partially or totally block activity, decrease, prevent, delay activation, inactivate, desensitize, or down regulate the activity or expression of soft tissue sarcoma cancer proteins, e.g., antagonists. "Activators" are compounds that increase, open, activate, facilitate, enhance activation, sensitize, agonize, or up regulate soft tissue sarcoma cancer protein activity. Inhibitors, activators, or modulators also include genetically modified versions of soft tissue sarcoma cancer proteins, e.g., versions with altered activity, as well as naturally occurring and synthetic ligands, antagonists, agonists, antibodies, small chemical molecules and the like. Such assays for inhibitors and activators include, e.g., expressing the cancer protein in vitro, in cells, or cell membranes, applying putative modulator compounds, and then determining the functional effects on activity, as described above. Activators and inhibitors of soft tissue sarcoma cancer can also be identified by incubating cancer cells with the test compound and determining increases or decreases in the expression of 1 or more soft tissue sarcoma cancer proteins, e.g., 1, 2, 3, 4, 5, 10, 15, 20, 25, 30, 40, 50 or more cancer proteins, such as soft tissue sarcoma cancer proteins comprising the sequences set out in the Tables.

Samples or assays comprising soft tissue sarcoma cancer proteins that are treated with a potential activator, inhibitor, or modulator are compared to control samples without the inhibitor, activator, or modulator to examine the extent of inhibition. Control samples (untreated with inhibitors) are assigned a relative protein activity value of 100%. Inhibition of a polypeptide is achieved when the activity value relative to the control is about 80%, preferably 50%, more preferably 25-0%. Activation of a soft tissue sarcoma cancer polypeptide is achieved when the activity value relative to the control (untreated with activators) is 110%, more preferably

150%, more preferably about 200-500% (e.g., two to five fold higher relative to the control), more preferably 1000-3000% higher.

The phrase "changes in cell growth" refers to a change in cell growth or proliferation characteristics in vitro or in vivo, such as cell viability, formation of foci, anchorage independence, semi-solid or soft agar growth, changes in contact inhibition and density limitation of growth, loss of growth factor or serum requirements, changes in cell morphology, gaining or losing immortalization, gaining or losing tumor specific markers, ability to form or suppress tumors when injected into suitable animal hosts, and/or immortalization of the cell. See, e.g., pp. 231-241 in Freshney (1994) Culture of Animal Cells a Manual of Basic Technique (2d ed.) Wiley-Liss.

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"Tumor cell" refers to precancerous, cancerous, and normal cells in a tumor.

"Cancer cells," "transformed" cells or "transformation" in tissue culture, refers to spontaneous or induced phenotypic changes that do not necessarily involve the uptake of new genetic material. Although transformation can arise from infection with a transforming virus and incorporation of new genomic DNA, or uptake of exogenous DNA, it can also arise spontaneously or following exposure to a carcinogen, thereby mutating an endogenous gene. Transformation is associated with phenotypic changes, such as immortalization of cells, aberrant growth control, nonmorphological changes, and/or malignancy. See, Freshney (2001) Culture of Animal Cells: A Manual of Basic Technique (4th ed.) Wiley-Liss.

"Antibody" refers to a polypeptide comprising a framework region from an immunoglobulin gene or fragments thereof that specifically binds and recognizes an antigen. The recognized immunoglobulin genes include the kappa, lambda, alpha, gamma, delta, epsilon, and mu constant region genes, as well as the myriad immunoglobulin variable region genes. Light chains are classified as either kappa or lambda. Heavy chains are classified as gamma, mu, alpha, delta, or epsilon, which in turn define the immunoglobulin classes, IgG, IgM, IgA, IgD and IgE, respectively. Typically, the antigen-binding region of an antibody will be most critical in specificity and affinity of binding. See Paul (ed. 1999) Fundamental Immunology (4th ed.) Raven.

An exemplary immunoglobulin (antibody) structural unit comprises a tetramer. Each tetramer is composed of two identical pairs of polypeptide chains, each pair having one "light" (about 25 kD) and one "heavy" chain (about 50-70 kD). The N-terminus of each chain defines a variable region of about 100-110 or more

amino acids primarily responsible for antigen recognition. The terms variable light chain (V_L) and variable heavy chain (V_H) refer to these light and heavy chains respectively.

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Antibodies exist, e.g., as intact immunoglobulins or as a number of well-characterized fragments produced by digestion with various peptidases. Thus, e.g., pepsin digests an antibody below the disulfide linkages in the hinge region to produce F(ab)'2, a dimer of Fab which itself is a light chain joined to V_H-C_H1 by a disulfide bond. The F(ab)'2 may be reduced under mild conditions to break the disulfide linkage in the hinge region, thereby converting the F(ab)'2 dimer into an Fab' monomer. The Fab' monomer is essentially Fab with part of the hinge region. See Paul (ed. 1999) Fundamental Immunology (4th ed.) Raven. While various antibody fragments are defined in terms of the digestion of an intact antibody, it will be appreciated that such fragments may be synthesized de novo either chemically or by using recombinant DNA methodology. Thus, the term antibody, as used herein, also includes antibody fragments either produced by the modification of whole antibodies, or those synthesized de novo using recombinant DNA methodologies (e.g., single chain Fv) or those identified using phage display libraries (e.g., McCafferty, et al. (1990) Nature 348:552-554).

For preparation of antibodies, e.g., recombinant, monoclonal, or polyclonal 20 antibodies, many techniques can be used. See, e.g., Kohler and Milstein (1975) Nature 256:495-497; Kozbor, et al. (1983) Immunology Today 4:72; Cole, et al. (1985) pp. 77-96 in Reisfeld and Sell (1985) Monoclonal Antibodies and Cancer Therapy Liss; Coligan (1991) Current Protocols in Immunology Lippincott; Harlow and Lane (1988) Antibodies: A Laboratory Manual CSH Press; and Goding (1986) 25 Monoclonal Antibodies: Principles and Practice (2d ed.) Academic Press. Techniques for the production of single chain antibodies (US Patent 4,946,778) can be adapted to produce antibodies to polypeptides of this invention. Also, transgenic mice, or other organisms such as other mammals, may be used to express humanized antibodies. Alternatively, phage display technology can be used to identify antibodies and heteromeric Fab fragments that specifically bind to selected antigens. See, e.g., 30 McCafferty, et al. (1990) Nature 348:552-554; Marks, et al. (1992) Biotechnology 10:779-783.

A "chimeric antibody" is an antibody molecule in which (a) the constant region, or a portion thereof, is altered, replaced or exchanged so that the antigen binding site (variable region) is linked to a constant region of a different or altered class, effector function and/or species, or an entirely different molecule which confers new properties to the chimeric antibody, e.g., an enzyme, toxin, hormone, growth factor, drug, etc.; or (b) the variable region, or a portion thereof, is altered, replaced or exchanged with a variable region having a different or altered antigen specificity.

Identification, Expression of soft tissue sarcoma cancer-associated sequences

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In one aspect, the expression levels of genes are determined in different patient samples for which diagnosis information is desired, to provide expression profiles. An expression profile of a particular sample is essentially a "fingerprint" of the state of the sample; while two states may have a particular gene similarly expressed, the evaluation of a number of genes simultaneously allows the generation of a gene expression profile that is unique to the state of the cell. That is, normal tissue may be distinguished from sarcoma disorder tissue. By comparing expression profiles of tissue in known different soft tissue sarcoma cancer states, e.g., stages or disease course outcomes, information regarding which genes are important (including both up- and down-regulation of genes) in each of these states is obtained. Molecular profiling may distinguish subtypes of a currently collective disease designation, e.g., different forms of cancer processes.

The identification of sequences that are differentially expressed in cancer versus non-cancer tissue allows the use of this information in a number of ways. For example, a particular treatment regime may be evaluated: does a chemotherapeutic drug act to down-regulate soft tissue sarcoma cancer, and thus tumor growth or recurrence, in a particular patient. Alternatively, a treatment step may induce other markers which may be used as targets to destroy tumor cells. Similarly, diagnosis and treatment outcomes may be done or confirmed by comparing patient samples with the known expression profiles. Cancer tissue can be compared to non-cancerous conditions, or be analyzed to determine the stage of soft tissue sarcoma cancer in the tissue, or origin of primary tumor, e.g., metastasis from a remote primary site. Furthermore, these gene expression profiles (or individual genes) allow screening of drug candidates with an eye to mimicking or altering a particular expression profile; e.g., screening can be done for drugs that suppress the cancer expression profile. This

may be done by making biochips comprising sets of the important soft tissue sarcoma cancer genes, which can then be used in these screens. These methods can also be done on the protein basis; that is, protein expression levels of the cancer proteins can be evaluated for diagnostic purposes or to screen candidate agents. In addition, the cancer nucleic acid sequences can be administered for gene therapy purposes, including the administration of antisense nucleic acids, or the cancer proteins (including antibodies and other modulators thereof) administered as therapeutic drugs.

Thus the present invention provides nucleic acid and protein sequences that are differentially expressed in soft tissue sarcoma cancer relative to normal tissues and/or non-malignant disease, or in different types of related diseases, herein termed "soft tissue sarcoma cancer sequences". As outlined below, soft tissue sarcoma cancer sequences include those that are up-regulated (e.g., expressed at a higher level) in disorders associated with soft tissue sarcoma cancer, as well as those that are down-regulated (e.g., expressed at a lower level). In one embodiment, the soft tissue sarcoma cancer sequences are from humans; however, as will be appreciated, soft tissue sarcoma cancer sequences from other organisms may be useful in animal models of disease and drug evaluation; thus, other soft tissue sarcoma cancer sequences are provided, from vertebrates, including mammals, including rodents (rats, mice, hamsters, guinea pigs, etc.), primates, farm animals (including sheep, goats, pigs, cows, horses, etc) and pets (e.g., dogs, cats, etc.). Soft tissue sarcoma cancer sequences from other organisms may be obtained using the techniques outlined below.

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Soft tissue sarcoma cancer sequences can include both nucleic acid and amino acid sequences. In one embodiment, the soft tissue sarcoma cancer sequences are recombinant nucleic acids. These nucleic acid sequences are useful in a variety of applications, including diagnostic applications, which will detect naturally occurring nucleic acids, as well as screening applications; e.g., biochips comprising nucleic acid probes or PCR microtiter plates with selected probes to the soft tissue sarcoma cancer sequences.

A soft tissue sarcoma cancer sequence can be initially identified by substantial nucleic acid and/or amino acid sequence homology to the sequences outlined herein. Such homology can be based upon the overall nucleic acid or amino acid sequence, and is generally determined as outlined below, e.g., using homology programs or hybridization conditions.

For identifying soft tissue sarcoma cancer-associated sequences, the cancer screen typically includes comparing genes identified in different tissues, e.g., normal and cancer tissues, cancer and non-malignant conditions, non-malignant conditions and normal tissues, or tumor tissue samples from patients who have metastatic disease vs. non metastatic tissue. Other suitable tissue comparisons include comparing cancer samples with metastatic cancer samples from other cancers, such as lung, stomach, gastrointestinal cancers, etc. Samples of different stages of cancer, e.g., survivor tissue, drug resistant states, and tissue undergoing metastasis, are applied to biochips comprising nucleic acid probes. The samples are first microdissected, if applicable, and treated for the preparation of mRNA. Suitable biochips are commercially available, e.g., from Affymetrix, Santa Clara, CA. Gene expression profiles as described herein are generated and the data analyzed.

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In one embodiment, the genes showing changes in expression as between normal and disease states are compared to genes expressed in other normal tissues, including, and not limited to lung, heart, brain, liver, stomach, kidney, muscle, colon, small intestine, large intestine, spleen, bone, and/or placenta. In another embodiment, those genes identified during the cancer screen that are expressed in a significant amount in other tissues (e.g., essential organs) are removed from the profile, although in some embodiments, this is not necessary (e.g., where organs may be dispensable, e.g., female or male specific). That is, when screening for drugs, it is usually preferable that the target expression be disease specific, to minimize possible side effects on other organs were there expression.

In one embodiment, soft tissue sarcoma cancer sequences are those that are up-regulated in soft tissue sarcoma cancer; that is, the expression of these genes is higher in the cancer tissue as compared to non-cancer or non-malignant tissue. "Up-regulation" as used herein often means at least about a two-fold change, preferably at least about a three fold change, with at least about five-fold or higher being preferred. Another embodiment is directed to sequences up-regulated in non-malignant conditions relative to normal. Uniformity among relevant samples is desired.

Unigene cluster identification numbers and accession numbers herein are for the GenBank sequence database and the sequences of the accession numbers are hereby expressly incorporated by reference. GenBank is available, see, e.g., Benson, et al. (1998) Nuc. Acids Res. 26:1-7. Sequences are also available in other databases, e.g., European Molecular Biology Laboratory (EMBL) and DNA Database of Japan

(DDBJ). In some situations, the sequences may be derived from assembly of available sequences or be predicted from genomic DNA using exon prediction algorithms, such as FGENESH. See Salamov and Solovyev (2000) Genome Res. 10:516-522. In other situations, sequences have been derived from cloning and sequencing of isolated nucleic acids.

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In another embodiment, soft tissue sarcoma cancer sequences are those that are down-regulated in cancer; that is, the expression of these genes is lower compared to non-cancer tissue. "Down-regulation" as used herein often means at least about a two-fold change, preferably at least about a three fold change, with at least about five-fold or higher being useful.

By the term "recombinant nucleic acid" herein is meant nucleic acid, originally formed in vitro, in general, by the manipulation of nucleic acid e.g., using polymerases and endonucleases, in a form not normally found in nature. Thus an isolated nucleic acid, in a linear form, or an expression vector formed in vitro by ligating DNA molecules that are not normally joined, are both considered recombinant for the purposes of this invention. It is understood that once a recombinant nucleic acid is made and reintroduced into a host cell or organism, it will replicate non-recombinantly, e.g., using the in vivo cellular machinery of the host cell rather than in vitro manipulations; however, such nucleic acids, once produced recombinantly, although subsequently replicated non-recombinantly, are still considered recombinant for the purposes of the invention.

Similarly, a "recombinant protein" is a protein made using recombinant techniques, e.g., through the expression of a recombinant nucleic acid as depicted above. A recombinant protein is distinguished from naturally occurring protein by at least one or more characteristics. The protein may be isolated or purified away from some or most of the proteins and compounds with which it is normally associated in its wild type host, and thus may be substantially pure. An isolated protein is unaccompanied by at least some of the material with which it is normally associated in its natural state, preferably constituting at least about 0.5%, more preferably at least about 5% by weight of the total protein in a given sample. A substantially pure protein comprises at least about 75% by weight of the total protein, with at least about 80% being preferred, and at least about 90% being particularly preferred. The definition includes the production of a soft tissue sarcoma cancer protein from one organism in a different organism or host cell. Alternatively, the protein may be made

at a significantly higher concentration than is normally seen, through the use of an inducible promoter or high expression promoter, such that the protein is made at increased concentration levels. Alternatively, the protein may be in a form not normally found in nature, as in the addition of an epitope tag or amino acid substitutions, insertions and deletions, as discussed below.

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In one embodiment, the soft tissue sarcoma cancer sequences are nucleic acids. Soft tissue sarcoma cancer sequences are useful in a variety of applications, including diagnostic applications, which will detect naturally occurring nucleic acids, as well as screening applications; e.g., biochips comprising nucleic acid probes to the cancer sequences can be generated. In the broadest sense, then, by "nucleic acid" or "oligonucleotide" or grammatical equivalents herein means at least two nucleotides covalently linked together. A nucleic acid of the present invention will generally contain phosphodiester bonds, although in some cases, nucleic acid analogs are included that may have alternate backbones, comprising, e.g., phosphoramidate, phosphorothioate, phosphorodithioate, or O-methylphophoroamidite linkages (see Eckstein (1992) Oligonucleotides and Analogues: A Practical Approach, Oxford Univ. Press); and peptide nucleic acid backbones and linkages. Other analog nucleic acids include those with positive backbones; non-ionic backbones, and non-ribose backbones, including those described in US Patent Nos. 5,235,033 and 5,034,506, and Chapters 6 and 7 in Sanghvi and Cook (eds. 1994) Carbohydrate Modifications in Antisense Research ACS Symposium Series 580. Nucleic acids containing one or more carbocyclic sugars are also included within one definition of nucleic acids. Modifications of the ribose-phosphate backbone may be done for a variety of reasons, e.g., to increase the stability and half-life of such molecules in physiological 25 environments or as probes on a biochip.

Nucleic acid analogs may find use in the present invention. In addition, mixtures of naturally occurring nucleic acids and analogs can be made; alternatively, mixtures of different nucleic acid analogs, and mixtures of naturally occurring nucleic acids and analogs may be made.

Particularly useful are peptide nucleic acids (PNA) which includes peptide nucleic acid analogs. These backbones are substantially non-ionic under neutral conditions, in contrast to the highly charged phosphodiester backbone of naturally occurring nucleic acids. This results in two advantages. First, the PNA backbone exhibits improved hybridization kinetics. PNAs have larger changes in the melting

temperature (T_m) for mismatched versus perfectly matched basepairs. DNA and RNA typically exhibit a 2-4° C drop in T_m for an internal mismatch. With the non-ionic PNA backbone, the drop is closer to 7-9° C. Similarly, due to their non-ionic nature, hybridization of the bases attached to these backbones is relatively insensitive to salt concentration. In addition, PNAs are not degraded by cellular enzymes, and thus can be more stable.

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The nucleic acids may be single stranded or double stranded, as specified, or contain portions of both double stranded or single stranded sequence. The depiction of a single strand also defines the sequence of a complementary strand; thus the sequences described herein also provide the complement of the sequence. The nucleic acid may be DNA, both genomic and cDNA, RNA, or a hybrid, where the nucleic acid may contain combinations of deoxyribo- and ribo-nucleotides, and combinations of bases, including uracil, adenine, thymine, cytosine, guanine, inosine, xanthine hypoxanthine, isocytosine, isoguanine, etc. As used herein, the term "nucleoside" includes nucleotides and nucleoside and nucleotide analogs, and modified nucleosides such as amino modified nucleosides. In addition, "nucleoside" includes non-naturally occurring analog structures. Thus, e.g., the individual units of a peptide nucleic acid, each containing a base, are referred to herein as a nucleoside.

A soft tissue sarcoma cancer sequence can be initially identified by substantial nucleic acid and/or amino acid sequence homology to the soft tissue sarcoma cancer sequences outlined herein. Such homology can be based upon the overall nucleic acid or amino acid sequence, and is generally determined as outlined below, using either homology programs or hybridization conditions.

For identifying soft tissue sarcoma cancer-associated sequences, the cancer screen typically includes comparing genes identified in cancer cells with genes identified in controls. Samples of normal tissue and tissue associated with soft tissue sarcoma cancer are applied to biochips comprising nucleic acid probes. The samples are first microdissected, if applicable, and treated for the preparation of mRNA. Suitable biochips are commercially available, e.g., from Affymetrix. Gene expression profiles as described herein are generated and the data analyzed.

In one embodiment, the genes showing changes in expression as between normal and disease states are compared to genes expressed in other normal tissues, including, but not limited to lung, heart, brain, liver, breast, kidney, muscle, prostate.

small intestine, large intestine, spleen, bone, and placenta. In another embodiment, those genes identified during the cancer screen that are expressed in significant amount in other tissues are removed from the profile, although in some embodiments, this is not necessary. That is, when screening for drugs, it is usually preferable that the target be disease specific, to minimize possible side effects.

In one embodiment, soft tissue sarcoma cancer sequences are those that are up-regulated in soft tissue sarcoma cancer disorders; that is, the expression of these genes is higher in the disease tissue as compared to normal tissue. "Up-regulation" as used herein means at least about a two-fold change, preferably at least about a three fold change, with at least about five-fold or higher being preferred. Accession numbers herein are for the GenBank sequence database and the sequences of the accession numbers are hereby expressly incorporated by reference. See, e.g., Benson, et al. (1998) Nuc. Acids Res. 26:1-7. Sequences are also available in other databases, e.g., European Molecular Biology Laboratory (EMBL) and DNA Database of Japan (DDBJ). In addition, most genes were found to be expressed in a limited amount or not at all in heart, brain, lung, liver, breast, kidney, prostate, small intestine, and spleen.

In another embodiment, soft tissue sarcoma cancer sequences are those that are down-regulated in the soft tissue sarcoma cancer disorder; that is, the expression of these genes is lower in cancer tissue as compared to normal tissue. "Down-regulation" as used herein means at least about a two-fold change, preferably at least about a three fold change, with at least about five-fold or higher being preferred.

Informatics

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The ability to identify genes that undergo changes in expression with time during soft tissue sarcoma cancer can additionally provide high-resolution, high-sensitivity datasets which can be used in the areas of diagnostics, therapeutics, drug development, biosensor development, and other related areas. For example, the expression profiles can be used in diagnostic or prognostic evaluation of patients with soft tissue sarcoma cancer-associated disease. Or as another example, subcellular toxicological information can be generated to better direct drug structure and activity correlation. See Anderson (June 11-12, 1998) Pharmaceutical Proteomics: Targets, Mechanism, and Function, paper presented at the IBC Proteomics conference, Coronado, CA. Subcellular toxicological information can also be utilized in a

biological sensor device to predict the likely toxicological effect of chemical exposures and likely tolerable exposure thresholds (see, US Patent No. 5,811,231). Similar advantages accrue from datasets relevant to other biomolecules and bioactive agents (e.g., nucleic acids, saccharides, lipids, drugs, and the like).

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Thus, in another embodiment, the present invention provides a database that includes at least one set of data assay data. The data contained in the database is acquired, e.g., using array analysis either singly or in a library format. The database can be in a form in which data can be maintained and transmitted, but is preferably an electronic database. The electronic database of the invention can be maintained on an electronic device allowing for the storage of and access to the database, such as a personal computer, but is preferably distributed on a wide area network, such as the World Wide Web.

The focus of the present section on databases that include peptide sequence data is for clarity of illustration only. Similar databases can be assembled for assay data acquired using an assay of the invention.

The compositions and methods for identifying and/or quantitating the relative and/or absolute abundance of a variety of molecular and macromolecular species from a biological sample exhibiting soft tissue sarcoma cancer, e.g., the identification of soft tissue sarcoma cancer-associated sequences described herein, provide an abundance of information, which can be correlated with pathological conditions, predisposition to disease, drug testing, therapeutic monitoring, gene-disease causal linkages, identification of correlates of immunity and physiological status, among others. Although the data generated from the assays of the invention is suited for manual review and analysis, prior data processing using high-speed computers may be utilized.

An array of methods for indexing and retrieving biomolecular information is available. For example, US Patents 6,023,659 and 5,966,712 disclose a relational database system for storing biomolecular sequence information in a manner that allows sequences to be catalogued and searched according to one or more protein function hierarchies. US Patent 5,953,727 discloses a relational database having sequence records containing information in a format that allows a collection of partial-length DNA sequences to be catalogued and searched according to association with one or more sequencing projects for obtaining full-length sequences from the collection of partial length sequences. US Patent 5,706,498 discloses a gene database

retrieval system for making a retrieval of a gene sequence similar to a sequence data item in a gene database based on the degree of similarity between a key sequence and a target sequence. US Patent 5,538,897 discloses a method using mass spectroscopy fragmentation patterns of peptides to identify amino acid sequences in computer databases by comparison of predicted mass spectra with experimentally-derived mass 5 spectra using a closeness-of-fit measure. US Patent 5,926,818 discloses a multidimensional database comprising a functionality for multi-dimensional data analysis described as on-line analytical processing (OLAP), which entails the consolidation of projected and actual data according to more than one consolidation path or dimension. US Patent 5,295,261 reports a hybrid database structure in which the fields of each 10 database record are divided into two classes, navigational and informational data, with navigational fields stored in a hierarchical topological map which can be viewed as a tree structure or as the merger of two or more such tree structures. See also Mount (2001) Bioinformatics: Sequence and Genome Analysis CSH Press, NY; Durbin, et al. (eds. 1999) Biological Sequence Analysis: Probabilistic Models of Proteins and 15 Nucleic Acids Cambridge Univ. Press; Baxevanis and Oeullette (eds. 1998) Bioinformatics: A Practical Guide to the Analysis of Genes and Proteins (2d ed.) Wiley-Liss; Rashidi and Buehler (1999) Bioinformatics: Basic Applications in Biological Science and Medicine CRC Press; Setubal, et al. (eds. 1997) Introduction 20 to Computational Molecular Biology Brooks/Cole; Misener and Krawetz (eds. 2000) Bioinformatics: Methods and Protocols Humana Press; Higgins and Taylor (eds. 2000) Bioinformatics: Sequence, Structure, and Databanks: A Practical Approach Oxford Univ. Press; Brown (2001) Bioinformatics: A Biologist's Guide to Biocomputing and the Internet Eaton Pub.; Han and Kamber (2000) Data Mining: 25 Concepts and Techniques Kaufmann Pub.; and Waterman (1995) Introduction to Computational Biology: Maps, Sequences, and Genomes Chap and Hall.

The present invention provides a computer database comprising a computer and software for storing in computer-retrievable form assay data records cross-tabulated, e.g., with data specifying the source of the target-containing sample from which each sequence specificity record was obtained.

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In an exemplary embodiment, at least one of the sources of target-containing sample is from a control tissue sample known to be free of pathological disorders. In a variation, at least one of the sources is a known pathological tissue specimen, e.g., a neoplastic lesion or another tissue specimen to be analyzed for soft tissue sarcoma

cancer. In another variation, the assay records cross-tabulate one or more of the following parameters for each target species in a sample: (1) a unique identification code, which can include, e.g., a target molecular structure and/or characteristic separation coordinate (e.g., electrophoretic coordinates); (2) sample source; and (3) absolute and/or relative quantity of the target species present in the sample.

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The invention also provides for the storage and retrieval of a collection of target data in a computer data storage apparatus, which can include magnetic disks, optical disks, magneto-optical disks, DRAM, SRAM, SGRAM, SDRAM, RDRAM, DDR RAM, magnetic bubble memory devices, and other data storage devices, including CPU registers and on-CPU data storage arrays. Typically, the target data records are stored as a bit pattern in an array of magnetic domains on a magnetizable medium or as an array of charge states or transistor gate states, such as an array of cells in a DRAM device (e.g., each cell comprised of a transistor and a charge storage area, which may be on the transistor). In one embodiment, the invention provides such storage devices, and computer systems built therewith, comprising a bit pattern encoding a protein expression fingerprint record comprising unique identifiers for at least 10 target data records cross-tabulated with target source.

When the target is a peptide or nucleic acid, the invention preferably provides a method for identifying related peptide or nucleic acid sequences, comprising performing a computerized comparison between a peptide or nucleic acid sequence assay record stored in or retrieved from a computer storage device or database and at least one other sequence. The comparison can include a sequence analysis or comparison algorithm or computer program embodiment thereof (e.g., FASTA, TFASTA, GAP, BESTFIT) and/or the comparison may be of the relative amount of a peptide or nucleic acid sequence in a pool of sequences determined from a polypeptide or nucleic acid sample of a specimen.

The invention also may provide a magnetic disk, such as an IBM-compatible (DOS, Windows, Windows95/98/2000, Windows NT, OS/2) or other format (e.g., Linux, SunOS, Solaris, AIX, SCO Unix, VMS, MV, Macintosh, etc.) floppy diskette or hard (fixed, Winchester) disk drive, comprising a bit pattern encoding data from an assay of the invention in a file format suitable for retrieval and processing in a computerized sequence analysis, comparison, or relative quantitation method.

The invention also provides a network, comprising a plurality of computing devices linked via a data link, such as an Ethernet cable (coax or 10BaseT), telephone

line, ISDN line, wireless network, optical fiber, or other suitable signal transmission medium, whereby at least one network device (e.g., computer, disk array, etc.) comprises a pattern of magnetic domains (e.g., magnetic disk) and/or charge domains (e.g., an array of DRAM cells) composing a bit pattern encoding data acquired from an assay of the invention.

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The invention also provides a method for transmitting assay data that includes generating an electronic signal on an electronic communications device, such as a modem, ISDN terminal adapter, DSL, cable modem, ATM switch, or the like, wherein the signal includes (in native or encrypted format) a bit pattern encoding data from an assay or a database comprising a plurality of assay results obtained by the method of the invention.

In one embodiment, the invention provides a computer system for comparing a query target to a database containing an array of data structures, such as an assay result obtained by the method of the invention, and ranking database targets based on the degree of identity and gap weight to the target data. A central processor is initialized to load and execute the computer program for alignment and/or comparison of the assay results. Data for a query target is entered into the central processor via an I/O device. Execution of the computer program results in the central processor retrieving the assay data from the data file, which comprises a binary description of an assay result.

The target data or record and the computer program can be transferred to secondary memory, which is typically random access memory (e.g., DRAM, SRAM, SGRAM, or SDRAM). Targets are ranked according to the degree of correspondence between a selected assay characteristic (e.g., binding to a selected affinity moiety) and the same characteristic of the query target and results are output via an I/O device. For example, a central processor can be a conventional computer (e.g., Intel Pentium, PowerPC, Alpha, PA-8000, SPARC, MIPS 4400, MIPS 10000, VAX, etc.); a program can be a commercial or public domain molecular biology software package (e.g., UWGCG Sequence Analysis Software, Darwin); a data file can be an optical or magnetic disk, a data server, a memory device (e.g., DRAM, SRAM, SGRAM, SDRAM, EPROM, bubble memory, flash memory, etc.); an I/O device can be a terminal comprising a video display and a keyboard, a modem, an ISDN terminal adapter, an Ethernet port, a punched card reader, a magnetic strip reader, or other suitable I/O device.

The invention also provides the use of a computer system, such as that described above, which comprises: (1) a computer; (2) a stored bit pattern encoding a collection of peptide sequence specificity records obtained by the methods of the invention, which may be stored in the computer; (3) a comparison target, such as a query target; and (4) a program for alignment and comparison, typically with rank-ordering of comparison results on the basis of computed similarity values.

Soft tissue sarcoma cancer-associated sequences

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Soft tissue sarcoma cancer proteins of the present invention may be classified 10 as secreted proteins, transmembrane proteins, or intracellular proteins. In one embodiment, the soft tissue sarcoma cancer protein is an intracellular protein. Intracellular proteins may be found in the cytoplasm and/or in the nucleus or associated with the intracellular side of the plasma membrane. Intracellular proteins are involved in all aspects of cellular function and replication (including, e.g., 15 signaling pathways); aberrant expression of such proteins often results in unregulated or disregulated cellular processes. See, e.g., Alberts, et al. (eds. 1994) Molecular Biology of the Cell (3d ed.) Garland. For example, many intracellular proteins have enzymatic activity such as protein kinase activity, protein phosphatase activity, protease activity, nucleotide cyclase activity, polymerase activity, and the like. Intracellular proteins also serve as docking proteins that are involved in organizing 20 complexes of proteins, or targeting proteins to various subcellular localizations, and are involved in maintaining the structural integrity of organelles.

An increasingly appreciated concept in characterizing proteins is the presence in the proteins of one or more motifs for which defined functions have been attributed. In addition to the highly conserved sequences found in the enzymatic domain of proteins, highly conserved sequences have been identified in proteins that are involved in protein-protein interaction. For example, Src-homology-2 (SH2) domains bind tyrosine-phosphorylated targets in a sequence dependent manner. PTB domains, which are distinct from SH2 domains, also bind tyrosine phosphorylated targets. SH3 domains bind to proline-rich targets. In addition, PH domains, tetratricopeptide repeats and WD domains to name only a few, have been shown to mediate protein-protein interactions. Some of these may also be involved in binding to phospholipids or other second messengers. These motifs can be identified on the basis of amino acid sequence; thus, an analysis of the sequence of proteins may

provide insight into both the enzymatic potential of the molecule and/or molecules with which the protein may associate. One useful database is Pfam (protein families), which is a large collection of multiple sequence alignments and hidden Markov models covering many common protein domains. Versions are available via the internet from Washington University in St. Louis, the Sanger Center in England, and the Karolinska Institute in Sweden. See, e.g., Bateman, et al. (2000) Nuc. Acids Res. 28:263-266; Sonnhammer, et al. (1997) Proteins 28:405-420; Bateman, et al. (1999) Nuc. Acids Res. 27:260-262; and Sonnhammer, et al. (1998) Nuc. Acids Res. 26:320-322.

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In another embodiment, the cancer sequences are transmembrane proteins.

Transmembrane proteins are molecules that span a phospholipid bilayer of a cell.

They may have an intracellular domain, an extracellular domain, or both. The intracellular domains of such proteins may have a number of functions including those already described for intracellular proteins. For example, the intracellular domain may have enzymatic activity and/or may serve as a binding site for additional proteins. Frequently the intracellular domain of transmembrane proteins serves both roles. For example certain receptor tyrosine kinases have both protein kinase activity and SH2 domains. In addition, autophosphorylation of tyrosines on the receptor molecule itself, creates binding sites for additional SH2 domain containing proteins.

Transmembrane proteins may contain from one to many transmembrane domains. For example, receptor tyrosine kinases, certain cytokine receptors, receptor guanylyl cyclases and receptor serine/threonine protein kinases contain a single transmembrane domain. However, various other proteins including channels and adenylyl cyclases contain numerous transmembrane domains. Many important cell surface receptors such as G protein coupled receptors (GPCRs) are classified as "seven transmembrane domain" proteins, as they contain 7 membrane spanning regions. Characteristics of transmembrane domains include approximately 20 consecutive hydrophobic amino acids that may be followed or flanked by charged amino acids. Therefore, upon analysis of the amino acid sequence of a particular protein, the localization and number of transmembrane domains within the protein may be predicted. Important transmembrane protein receptors include, but are not limited to the insulin receptor, insulin-like growth factor receptor, human growth hormone receptor, glucose transporters, transferrin receptor, epidermal growth factor

receptor, low density lipoprotein receptor, epidermal growth factor receptor, leptin receptor, and interleukin receptors, e.g., IL-1 receptor, IL-2 receptor, etc.

The extracellular domains of transmembrane proteins are diverse; however, conserved motifs are found repeatedly among various extracellular domains. 5 Conserved structure and/or functions have been ascribed to different extracellular motifs. Many extracellular domains are involved in binding to other molecules. In one aspect, extracellular domains are found on receptors. Factors that bind the receptor domain include circulating ligands, which may be peptides, proteins, or small molecules such as adenosine and the like. For example, growth factors such as EGF, 10 FGF, and PDGF are circulating growth factors that bind to their cognate receptors to initiate a variety of cellular responses. Other factors include cytokines, mitogenic factors, neurotrophic factors and the like. Extracellular domains also bind to cellassociated molecules. In this respect, they mediate cell-cell interactions. Cellassociated ligands can be tethered to the cell, e.g., via a glycosylphosphatidylinositol 15 (GPI) anchor, or may themselves be transmembrane proteins. Extracellular domains also associate with the extracellular matrix and contribute to the maintenance of the cell structure.

Soft tissue sarcoma cancer proteins that are transmembrane are useful in the present invention as they are readily accessible targets for immunotherapeutics, as are described herein. In addition, as outlined below, transmembrane proteins can be also useful in imaging modalities. Antibodies may be used to label such readily accessible proteins in situ. Alternatively, antibodies can also label intracellular proteins, in which case samples are typically permeabilized to provide access to intracellular proteins. In addition, some membrane proteins can be processed to release a soluble protein, or to expose a residual fragment. Released soluble proteins may be useful diagnostic markers, processed residual protein fragments may be useful markers of neoplastic disease.

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A transmembrane protein can be made soluble by removing transmembrane sequences, e.g., through recombinant methods. Furthermore, transmembrane proteins that have been made soluble can be made to be secreted through recombinant means by adding an appropriate signal sequence.

In another embodiment, the cancer proteins are secreted proteins; the secretion of which can be either constitutive or regulated. These proteins have a signal peptide or signal sequence that targets the molecule to the secretory pathway. Secreted

proteins are involved in numerous physiological events; e.g., if circulating, they often serve to transmit signals to various other cell types. Secreted protein may function in an autocrine manner (acting on the cell that secreted the factor), a paracrine manner (acting on cells in close proximity to the cell that secreted the factor), an endocrine manner (acting on cells at a distance, e.g., secretion into the blood stream), or exocrine (secretion, e.g., through a duct or to adjacent epithelial surface as sweat glands, sebaceous glands, pancreatic ducts, lacrimal glands, mammary glands, wax producing glands of the ear, etc.). Thus secreted molecules often find use in modulating or altering numerous aspects of physiology. Soft tissue sarcoma cancer proteins that are secreted proteins are included in the present invention as they serve as good targets for diagnostic markers, e.g., for blood, plasma, serum, or stool tests. Those which are enzymes may be antibody or small molecule targets. Others may be useful as vaccine targets, e.g., via CTL mechanisms.

15 Soft tissue sarcoma cancer-associated nucleic acids

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A soft tissue sarcoma cancer sequence is typically initially identified by substantial nucleic acid and/or amino acid sequence homology or linkage to the cancer sequences outlined herein. Such homology can be based upon the overall nucleic acid or amino acid sequence, and is generally determined as outlined below, using either homology programs or hybridization conditions. Typically, linked sequences on a mRNA are found on the same molecule.

As detailed elsewhere, percent identity can be determined using an algorithm such as BLAST. One method utilizes the BLASTN module of WU-BLAST-2 set to the default parameters, with overlap span and overlap fraction set to 1 and 0.125, respectively. Alignment may include the introduction of gaps in the sequences to be aligned. In addition, for sequences which contain either more or fewer nucleotides than those of the nucleic acids described, the percentage of homology may be determined based on the number of homologous nucleosides in relation to the total number of nucleosides. Thus, e.g., homology of sequences shorter than those of the sequences identified will be determined using the number of nucleosides in the shorter sequence.

In one embodiment, the nucleic acid homology is determined through hybridization studies. Thus, e.g., nucleic acids which hybridize under high stringency to a nucleic acid of Tables 1A-11C, or its complement, or is also found on naturally

occurring mRNAs is considered a soft tissue sarcoma cancer sequence. In another embodiment, less stringent hybridization conditions are used; e.g., moderate or low stringency conditions may be used; see Ausubel, supra, and Tijssen, supra.

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The soft tissue sarcoma cancer nucleic acid sequences of the invention, e.g., the sequences in Tables 1A-11C, can be fragments of larger genes, e.g., they are nucleic acid segments. "Genes" in this context includes coding regions, non-coding regions, and mixtures of coding and non-coding regions. Accordingly, using the sequences provided herein, extended sequences, in either direction, of the cancer genes can be obtained, using techniques well known for cloning either longer sequences or the full length sequences; see Ausubel, et al., supra. Much can be done by informatics and many sequences can be clustered to include multiple sequences, e.g., systems such as UniGene.

Once the soft tissue sarcoma cancer nucleic acid is identified, it can be cloned and, if necessary, its constituent parts recombined to form the entire cancer nucleic acid coding regions or the entire mRNA sequence. Once isolated from its natural source, e.g., contained within a plasmid or other vector or excised therefrom as a linear nucleic acid segment, the recombinant cancer nucleic acid can be further-used as a probe to identify and isolate other soft tissue sarcoma cancer nucleic acids, e.g., extended coding regions. It can also be used as a "precursor" nucleic acid to make modified or variant cancer nucleic acids and proteins.

The soft tissue sarcoma cancer nucleic acids of the present invention are used in several ways. In one embodiment, nucleic acid probes to the cancer nucleic acids are made and attached to biochips to be used in screening and diagnostic methods, as outlined below, or for administration, e.g., for gene therapy, vaccine, and/or antisense applications. Alternatively, cancer nucleic acids that include coding regions of cancer proteins can be put into expression vectors for the expression of cancer proteins, again for screening purposes or for administration to a patient.

In another embodiment, nucleic acid probes to soft tissue sarcoma cancer nucleic acids (both the nucleic acid sequences outlined in the figures and/or the complements thereof) are made. The nucleic acid probes attached to the biochip are designed to be substantially complementary to cancer nucleic acids, e.g., the target sequence (either the target sequence of the sample or to other probe sequences, e.g., in sandwich assays), such that hybridization of the target sequence and the probes of the present invention occurs. As outlined below, this complementarity need not be

perfect; there may be a number of base pair mismatches which will interfere with hybridization between the target sequence and the single stranded nucleic acids of the present invention. However, if the number of mutations is so great that no hybridization can occur under even the least stringent of hybridization conditions, the sequence is not a complementary target sequence. Thus, by "substantially complementary" herein is meant that the probes are sufficiently complementary to the target sequences to hybridize under normal reaction conditions, particularly high stringency conditions, as outlined herein.

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A nucleic acid probe is generally single stranded but can be partially single and partially double stranded. The strandedness of the probe is dictated by the structure, composition, and properties of the target sequence. In general, the nucleic acid probes range from about 8-100 bases long, with from about 10-80 bases being preferred, and from about 30-50 bases being particularly preferred. That is, generally whole genes are not used. In some embodiments, much longer nucleic acids can be used, up to hundreds of bases.

In one embodiment, more than one probe per sequence is used, with either overlapping probes or probes to different sections of the target being used. That is, two, three, four, or more probes, with three being preferred, are used to build in a redundancy for a particular target. The probes can be overlapping (e.g., have some sequence in common), or separate. In some cases, PCR primers may be used to amplify signal for higher sensitivity.

Nucleic acids can be attached or immobilized to a solid support in a wide variety of ways. By "immobilized" and grammatical equivalents herein is meant the association or binding between the nucleic acid probe and the solid support is sufficient to be stable under the conditions of binding, washing, analysis, and removal as outlined. The binding can typically be covalent or non-covalent. By "non-covalent binding" and grammatical equivalents herein is meant one or more of electrostatic, hydrophilic, and hydrophobic interactions. Included in non-covalent binding is the covalent attachment of a molecule, such as, streptavidin to the support and the non-covalent binding of the biotinylated probe to the streptavidin. By "covalent binding" and grammatical equivalents herein is meant that the two moieties, the solid support and the probe, are attached by at least one bond, including sigma bonds, pi bonds and coordination bonds. Covalent bonds can be formed directly between the probe and the solid support or can be formed by a cross linker or by inclusion of a specific

reactive group on either the solid support or the probe or both molecules.

Immobilization may also involve a combination of covalent and non-covalent interactions.

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In general, the probes are attached to the biochip in a wide variety of ways.

As described herein, the nucleic acids can either be synthesized first, with subsequent attachment to the biochip, or can be directly synthesized on the biochip.

The biochip comprises a suitable solid substrate. By "substrate" or "solid support" or other grammatical equivalents herein is meant a material that can be modified to contain discrete individual sites appropriate for the attachment or association of the nucleic acid probes and is amenable to at least one detection method. Often, the substrate may contain discrete individual sites appropriate for individual partitioning and identification. The number of possible substrates is very large, and includes, but is not limited to, glass and modified or functionalized glass, plastics (including acrylics, polystyrene and copolymers of styrene and other materials, polypropylene, polyethylene, polybutylene, polyurethanes, TeflonJ, etc.), polysaccharides, nylon or nitrocellulose, resins, silica or silica-based materials including silicon and modified silicon, carbon, metals, inorganic glasses, plastics, etc. In general, the substrates allow optical detection and do not appreciably fluoresce. See WO 00/55627.

Generally the substrate is planar, although other configurations of substrates may be used as well. For example, the probes may be placed on the inside surface of a tube, for flow-through sample analysis to minimize sample volume. Similarly, the substrate may be flexible, such as a flexible foam, including closed cell foams made of particular plastics.

In one embodiment, the surface of the biochip and the probe may be derivatized with chemical functional groups for subsequent attachment of the two. Thus, e.g., the biochip is derivatized with a chemical functional group including, but not limited to, amino groups, carboxy groups, oxo groups and thiol groups, with amino groups being particularly preferred. Using these functional groups, the probes can be attached using functional groups on the probes. For example, nucleic acids containing amino groups can be attached to surfaces comprising amino groups, e.g., using available linkers; e.g., homo-or hetero-bifunctional linkers as are well known (see 1994 Pierce Chemical Company catalog, technical section on cross-linkers, pages

155-200). In addition, in some cases, additional linkers, such as alkyl groups (including substituted and heteroalkyl groups) may be used.

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In this embodiment, oligonucleotides are synthesized, and then attached to the surface of the solid support. Either the 5' or 3' terminus may be attached to the solid support, or attachment may be via an internal nucleoside. In another embodiment, the immobilization to the solid support may be very strong, yet non-covalent. For example, biotinylated oligonucleotides can be made, which bind to surfaces covalently coated with streptavidin, resulting in attachment.

Alternatively, the oligonucleotides may be synthesized on the surface. For example, photoactivation techniques utilizing photopolymerization compounds and techniques are used. In one embodiment, the nucleic acids can be synthesized in situ, using well known photolithographic techniques, such as those described in WO 95/25116; WO 95/35505; US Patent Nos. 5,700,637 and 5,445,934; and references cited within, all of which are expressly incorporated by reference; these methods of attachment form the basis of the Affymetrix GENECHIP® (DNA microchip array) technology.

Often, amplification-based assays are performed to measure the expression level of soft tissue sarcoma cancer-associated sequences. These assays are typically performed in conjunction with reverse transcription. In such assays, a soft tissue sarcoma cancer-associated nucleic acid sequence acts as a template in an amplification reaction (e.g., Polymerase Chain Reaction, or PCR). In a quantitative amplification, the amount of amplification product will be proportional to the amount of template in the original sample. Comparison to appropriate controls provides a measure of the amount of soft tissue sarcoma cancer-associated RNA. Methods of quantitative amplification are well known. Detailed protocols for quantitative PCR are provided, e.g., in Innis, et al. (1990) PCR Protocols: A Guide to Methods and Applications Academic Press.

In some embodiments, a TAQMAN[®] (reagents for nucleic acid amplification) based assay is used to measure expression. TAQMAN[®] based assays use a fluorogenic oligonucleotide probe that contains a 5' fluorescent dye and a 3' quenching agent. The probe hybridizes to a PCR product, but cannot itself be extended due to a blocking agent at the 3' end. When the PCR product is amplified in subsequent cycles, the 5' nuclease activity of the polymerase, e.g., AMPLITAQ[®]

(enzyme for diagnostic applications), results in the cleavage of the TAQMAN® probe. This cleavage separates the 5' fluorescent dye and the 3' quenching agent, thereby resulting in an increase in fluorescence as a function of amplification (see, e.g., literature provided by Perkin-Elmer).

Other suitable amplification methods include, but are not limited to, ligase chain reaction (LCR) (see Wu and Wallace (1989) Genomics 4:560-569, Landegren, et al. (1988) Science 241:1077-1080, and Barringer, et al. (1990) Gene 89:117-122), transcription amplification (Kwoh, et al. (1989) Proc. Nat'l Acad. Sci. USA 86:1173-1177), self-sustained sequence replication (Guatelli, et al. (1990) Proc. Nat'l Acad. Sci. USA 87:1874-1878), dot PCR, linker adapter PCR, etc.

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Expression of soft tissue sarcoma cancer-associated proteins from nucleic acids

In one embodiment, soft tissue sarcoma cancer nucleic acids, e.g., encoding soft tissue sarcoma cancer proteins are used to make a variety of expression vectors to express cancer proteins which can then be used in screening assays, as described below. Expression vectors and recombinant DNA technology are well known (see, e.g., Ausubel, supra, and Fernandez and Hoeffler (eds. 1999) Gene Expression Systems Academic Press) and are used to express proteins. The expression vectors may be either self-replicating extrachromosomal vectors or vectors which integrate into a host genome. Generally, these expression vectors include transcriptional and translational regulatory nucleic acid operably linked to the nucleic acid encoding the soft tissue sarcoma cancer protein. The term "control sequences" refers to DNA sequences used for the expression of an operably linked coding sequence in a particular host organism. Control sequences that are suitable for prokaryotes, e.g., include a promoter, optionally an operator sequence, and a ribosome binding site. Eukaryotic cells are known to utilize promoters, polyadenylation signals, and enhancers.

Nucleic acid is "operably linked" when it is placed into a functional relationship with another nucleic acid sequence. For example, DNA for a presequence or secretory leader is operably linked to DNA for a polypeptide if it is expressed as a preprotein that participates in the secretion of the polypeptide; a promoter or enhancer is operably linked to a coding sequence if it affects the transcription of the sequence; or a ribosome binding site is operably linked to a coding

sequence if it is positioned so as to facilitate translation. Generally, "operably linked" means that the DNA sequences being linked are contiguous, and, in the case of a secretory leader, contiguous and in reading phase. However, enhancers do not have to be contiguous. Linking is typically accomplished by ligation at convenient restriction sites. If such sites do not exist, synthetic oligonucleotide adaptors or linkers are used in accordance with conventional practice. Transcriptional and translational regulatory nucleic acid will generally be appropriate to the host cell used to express the soft tissue sarcoma cancer protein; e.g., transcriptional and translational regulatory nucleic acid sequences from Bacillus are preferably used to express the soft tissue sarcoma cancer protein in Bacillus. Numerous types of appropriate expression vectors, and suitable regulatory sequences are known for a variety of host cells.

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In general, transcriptional and translational regulatory sequences may include, but are not limited to, promoter sequences, ribosomal binding sites, transcriptional start and stop sequences, translational start and stop sequences, and enhancer or activator sequences. In another embodiment, the regulatory sequences include a promoter and transcriptional start and stop sequences.

Promoter sequences encode either constitutive or inducible promoters. The promoters may be either naturally occurring promoters or hybrid promoters. Hybrid promoters, which combine elements of more than one promoter, are also known, and are useful in the present invention.

An expression vector may comprise additional elements. For example, the expression vector may have two replication systems, thus allowing it to be maintained in two organisms, e.g., in mammalian or insect cells for expression and in a prokaryotic host for cloning and amplification. Furthermore, for integrating expression vectors, the expression vector contains at least one sequence homologous to the host cell genome, and preferably two homologous sequences which flank the expression construct. The integrating vector may be directed to a specific locus in the host cell by selecting the appropriate homologous sequence for inclusion in the vector. Constructs for integrating vectors are available. See, e.g., Fernandez and Hoeffler, supra; and Kitamura, et al. (1995) Proc. Nat'l Acad. Sci. USA 92:9146-9150.

In addition, in another embodiment, the expression vector contains a selectable marker gene to allow the selection of transformed host cells. Selection genes are available and will vary with the host cell used.

The soft tissue sarcoma cancer proteins of the present invention are produced by culturing a host cell transformed with an expression vector containing nucleic acid encoding a cancer protein, under the appropriate conditions to induce or cause expression of the cancer protein. Conditions appropriate for soft tissue sarcoma cancer protein expression will vary with the choice of the expression vector and the host cell, and will be easily ascertained through routine experimentation or optimization. For example, the use of constitutive promoters in the expression vector will require optimizing the growth and proliferation of the host cell, while the use of an inducible promoter requires the appropriate growth conditions for induction. In addition, in some embodiments, the timing of the harvest is important. For example, the baculoviral systems used in insect cell expression are lytic viruses, and thus harvest time selection can be crucial for product yield.

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Appropriate host cells include yeast, bacteria, archaebacteria, fungi, and insect and animal cells, including mammalian cells. Of particular interest are Saccharomyces cerevisiae and other yeasts, E. coli, Bacillus subtilis, Sf9 cells, C129 cells, 293 cells, Neurospora, BHK, CHO, COS, HeLa cells, HUVEC (human umbilical vein endothelial cells), THP1 cells (a macrophage cell line), and various other human cells and cell lines.

In one embodiment, the soft tissue sarcoma cancer proteins are expressed in mammalian cells. Mammalian expression systems may be used, and include 20 retroviral and adenoviral systems. One expression vector system is a retroviral vector system such as is generally described in PCT/US97/01019 and PCT/US97/01048. Of particular use as mammalian promoters are the promoters from mammalian viral genes, since the viral genes are often highly expressed and have a broad host range. Examples include the SV40 early promoter, mouse mammary tumor virus LTR 25 promoter, adenovirus major late promoter, herpes simplex virus promoter, and the CMV promoter (see, e.g., Fernandez and Hoeffler, supra). Typically, transcription termination and polyadenylation sequences recognized by mammalian cells are regulatory regions located 3' to the translation stop codon and thus, together with the promoter elements, flank the coding sequence. Examples of transcription terminator 30 and polyadenylation signals include those derived form SV40.

Methods of introducing exogenous nucleic acid into mammalian hosts, as well as other hosts, are available, and will vary with the host cell used. Techniques include dextran-mediated transfection, calcium phosphate precipitation, polybrene mediated

transfection, protoplast fusion, electroporation, viral infection, encapsulation of the polynucleotide(s) in liposomes, and direct microinjection of the DNA into nuclei.

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In one embodiment, soft tissue sarcoma cancer proteins are expressed in bacterial systems. Promoters from bacteriophage may also be used. In addition. synthetic promoters and hybrid promoters are also useful; e.g., the tac promoter is a hybrid of the trp and lac promoter sequences. Furthermore, a bacterial promoter can include naturally occurring promoters of non-bacterial origin that have the ability to bind bacterial RNA polymerase and initiate transcription. In addition to a functioning promoter sequence, an efficient ribosome binding site is desirable. The expression vector may also include a signal peptide sequence that provides for secretion of the soft tissue sarcoma cancer protein in bacteria. The protein is either secreted into the growth media (gram-positive bacteria) or into the periplasmic space, located between the inner and outer membrane of the cell (gram-negative bacteria). The bacterial expression vector may also include a selectable marker gene to allow for the selection of bacterial strains that have been transformed. Suitable selection genes include genes which render the bacteria resistant to drugs such as ampicillin, chloramphenicol, erythromycin, kanamycin, neomycin, and tetracycline. Selectable markers also include biosynthetic genes, such as those in the histidine, tryptophan, and leucine biosynthetic pathways. These components are assembled into expression vectors. Expression vectors for bacteria include vectors for Bacillus subtilis, E. coli, Streptococcus cremoris, and Streptococcus lividans, among others (e.g., Fernandez and Hoeffler, supra). The bacterial expression vectors are transformed into bacterial host cells using techniques such as calcium chloride treatment, electroporation, and others.

In one embodiment, soft tissue sarcoma cancer proteins are produced in insect cells using, e.g., expression vectors for the transformation of insect cells, and in particular, baculovirus-based expression vectors.

In another embodiment, a soft tissue sarcoma cancer protein is produced in yeast cells. Yeast expression systems include expression vectors for Saccharomyces cerevisiae, Candida albicans and C. maltosa, Hansenula polymorpha, Kluyveromyces fragilis and K. lactis, Pichia guillerimondii and P. pastoris, Schizosaccharomyces pombe, and Yarrowia lipolytica.

The soft tissue sarcoma cancer protein may also be made as a fusion protein, e.g., for the creation of monoclonal antibodies, if the desired epitope is small, the soft

tissue sarcoma cancer protein may be fused to a carrier protein to form an immunogen. Alternatively, the soft tissue sarcoma cancer protein may be made as a fusion protein to increase expression, or for other reasons. For example, when the soft tissue sarcoma cancer protein is a peptide, the nucleic acid encoding the peptide may be linked to another nucleic acid for expression purposes. Fusion with detection epitope tags can be made, e.g., with FLAG, His6, myc, HA, etc.

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In one embodiment, the soft tissue sarcoma cancer protein is purified or isolated after expression. Soft tissue sarcoma cancer proteins may be isolated or purified in a variety of ways depending on what other components are present in the sample and the requirements for purified product. Standard purification methods include ammonium sulfate precipitations, electrophoretic, molecular, immunological, and chromatographic techniques, including ion exchange, hydrophobic, affinity, and reverse-phase HPLC chromatography, and chromatofocusing. For example, the cancer protein may be purified using a standard anti-cancer protein antibody column. Ultrafiltration and diafiltration techniques, in conjunction with protein concentration, are also useful. See, e.g., Walsh (2002) Proteins: Biochemistry and Biotechnology Wiley; Hardin, et al. (eds. 2001) Cloning, Gene Expression and Protein Purification Oxford Univ. Press; Wilson, et al. (eds. 2000) Encyclopedia of Separation Science Academic Press; and Scopes (1993) Protein Purification Springer-Verlag. The degree of purification necessary will vary depending on the use of the cancer protein. In some instances no purification will be necessary.

Once expressed and purified if necessary, the soft tissue sarcoma cancer proteins and nucleic acids are useful in a number of applications. They may be used as immunoselection reagents, as vaccine reagents, as screening agents, etc.

In one embodiment, the soft tissue sarcoma cancer nucleic acids, proteins, and antibodies of the invention are labeled. By "labeled" herein is meant that a compound has at least one element, isotope, or chemical compound attached to enable the detection of the compound. In general, labels fall into three classes: a) isotopic labels, which may be radioactive or heavy isotopes; b) immune labels, which may be antibodies, antigens, or epitope tags; and c) colored or fluorescent dyes. The labels may be incorporated into the cancer nucleic acids, proteins, and antibodies. For example, the label should be capable of producing, either directly or indirectly, a detectable signal. The detectable moiety may be a radioisotope, such as ³H, ¹⁴C,

32p, 35S, or 125I, a fluorescent or chemiluminescent compound, such as fluorescein isothiocyanate, rhodamine, or luciferin, or an enzyme, such as alkaline phosphatase, beta-galactosidase, or horseradish peroxidase. Methods are known for conjugating the antibody to the label. See, e.g., Hunter, et al. (1962) Nature 144:945; David, et al. (1974) Biochemistry 13:1014-1021; Pain, et al. (1981) J. Immunol. Meth. 40:219-230; and Nygren (1982) J. Histochem. and Cytochem. 30:407-412.

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Accordingly, the present invention also provides soft tissue sarcoma cancer protein sequences. A cancer protein of the present invention may be identified in several ways. "Protein" in this sense includes proteins, polypeptides, and peptides. Nucleic acid sequences of the invention can be used to generate protein sequences. including cloning the entire gene and verifying its frame and amino acid sequence, or by comparing it to known sequences to search for homology to provide a frame. assuming the soft tissue sarcoma cancer protein has an identifiable motif or homology to some protein in the database being used. Generally, the nucleic acid sequences are input into a program that will search all three frames for homology. This is done in an embodiment using the following NCBI Advanced BLAST parameters. The program is blastx or blastn. The database is nr. The input data is as "Sequence in FASTA format". The organism list is "none". The "expect" is 10; the filter is default. The "descriptions" is 500, the "alignments" is 500, and the "alignment view" is pairwise. The "Query Genetic Codes" is standard (1). The matrix is BLOSUM62; gap existence cost is 11, per residue gap cost is 1; and the lambda ratio is .85 default. This results in the generation of a putative protein sequence.

Variants of of soft tissue sarcoma cancer-associated proteins

Also included within one embodiment of soft tissue sarcoma cancer proteins are amino acid variants of the naturally occurring sequences, as determined herein. Preferably, the variants are preferably greater than about 75% homologous to the wild-type sequence, more preferably greater than about 80%, even more preferably greater than about 85%, and most preferably greater than 90%. In some embodiments the homology will be as high as about 93-95 or 98%. As for nucleic acids, homology in this context means sequence similarity or identity, with identity being preferred. This homology will be determined using standard techniques, as are outlined above for nucleic acid homologies.

Soft tissue sarcoma cancer proteins of the present invention may be shorter or longer than the wild type amino acid sequences. Thus, in one embodiment, included within the definition of soft tissue sarcoma cancer proteins are portions or fragments of the wild type sequences herein. In addition, as outlined above, the soft tissue sarcoma cancer nucleic acids of the invention may be used to obtain additional coding regions, and thus additional protein sequence.

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In another embodiment, the soft tissue sarcoma cancer proteins are derivative or variant cancer proteins as compared to the wild-type sequence. That is, the derivative cancer peptide will often contain at least one amino acid substitution, deletion, or insertion, with amino acid substitutions being particularly useful at an appropriate position.

Also included within one embodiment of soft tissue sarcoma cancer proteins of the present invention are amino acid sequence variants. These variants typically fall into one or more of three classes: substitutional, insertional, or deletional variants. These variants ordinarily are prepared by site specific mutagenesis of nucleotides in the DNA encoding the cancer protein, using cassette or PCR mutagenesis or other appropriate techniques, to produce DNA encoding the variant, and thereafter expressing the DNA in recombinant cell culture as outlined above. However, variant cancer protein fragments having up to about 100-150 residues may be prepared by in vitro synthesis using established techniques. Amino acid sequence variants are characterized by the predetermined nature of the variation, a feature that sets them apart from naturally occurring allelic or interspecies variation of the cancer protein amino acid sequence. The variants typically exhibit the same qualitative biological activity as the naturally occurring analogue, although variants can also be selected which have modified characteristics.

While the site or region for introducing an amino acid sequence variation is predetermined, the mutation per se need not be predetermined. For example, in order to optimize the performance of a mutation at a given site, random mutagenesis may be conducted at the target codon or region and the expressed cancer variants screened for the optimal combination of desired activity. Techniques for making substitution mutations at predetermined sites in DNA having a known sequence are well known, e.g., M13 primer mutagenesis and PCR mutagenesis. Screening of the mutants is done using assays of cancer protein activities.

Amino acid substitutions are typically of single residues; insertions usually will be on the order of from about 1-20 amino acids, although considerably larger insertions may be tolerated. Deletions range from about 1-20 residues, although in some cases deletions may be much larger.

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Substitutions, deletions, insertions or a combination thereof may be used to arrive at a final derivative. Generally these changes are done on a few amino acids to minimize the alteration of the molecule. However, larger changes may be tolerated in certain circumstances. When small alterations in the characteristics of the cancer protein are desired, substitutions are generally made in accordance with the amino acid substitution chart described.

The variants typically exhibit essentially the same qualitative biological activity and will elicit the same immune response as a naturally-occurring analog, although variants also are selected to modify the characteristics of cancer proteins as needed. Alternatively, the variant may be designed such that a biological activity of the cancer protein is altered. For example, glycosylation sites may be added, altered, or removed.

Substantial changes in function or immunological identity are made by selecting substitutions that are less conservative than those provided in the definition of "conservative substitution". For example, substitutions may be made which more significantly affect: the structure of the polypeptide backbone in the area of the alteration, e.g., the alpha-helical or beta-sheet structure; the charge or hydrophobicity of the molecule at the target site; or the bulk of the side chain. The substitutions which in general are expected to produce the greatest changes in the polypeptide's properties are those in which (a) a hydrophilic sidechain, e.g., serine or threonine, is substituted for (or by) a hydrophobic sidechain, e.g., leucine, isoleucine, phenylalanine, valine, or alanine; (b) a cysteine or proline is substituted for (or by) another residue; (c) a residue having an electropositive side chain, e.g., lysine, arginine, or histidine, is substituted for (or by) an electronegative side chain, e.g., glutamic or aspartic acid; (d) a residue having a bulky side chain, e.g., phenylalanine, is substituted for (or by) one not having a side chain, e.g., glycine; or (e) a proline residue is incorporated or substituted, which changes the degree of rotational freedom of the peptidyl bond.

The variants typically exhibit a similar qualitative biological activity and will elicit the same immune response as the naturally-occurring analog, although variants

also are selected to modify the characteristics of the soft tissue sarcoma cancer proteins as needed. Alternatively, the variant may be designed such that the biological activity of the cancer protein is altered. For example, glycosylation sites may be altered or removed.

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Covalent modifications of these cancer polypeptides are included within the scope of this invention. One type of covalent modification includes reacting targeted amino acid residues of a cancer polypeptide with an organic derivatizing agent that is capable of reacting with selected side chains or the N-or C-terminal residues of a cancer polypeptide. Derivatization with bifunctional agents is useful, e.g., for crosslinking cancer polypeptides to a water-insoluble support matrix or surface for use in the method for purifying anti-cancer polypeptide antibodies or screening assays. Commonly used crosslinking agents include, e.g., 1,1-bis(diazoacetyl)-2-phenylethane, glutaraldehyde, N-hydroxysuccinimide esters, e.g., esters with 4-azidosalicylic acid, homobifunctional imidoesters, including disuccinimidyl esters such as 3,3'-dithiobis(succinimidylpropionate), bifunctional maleimides such as bis-N-maleimido-1,8-octane and agents such as methyl-3-[(p-azidophenyl)dithio]propioimidate.

Other modifications include deamidation of glutamine and asparagine residues to the corresponding glutamic and aspartic acid residues, respectively, hydroxylation of proline and lysine, phosphorylation of hydroxyl groups of serine, threonine, or tyrosine residues, methylation of the γ -amino groups of lysine, arginine, and histidine side chains (e.g., pp. 79-86, Creighton (1992) Proteins: Structure and Molecular Properties Freeman), acetylation of the N-terminal amine, and amidation of a C-terminal carboxyl group.

Another type of covalent modification of a cancer polypeptide included within the scope of this invention comprises altering the native glycosylation pattern of the polypeptide. "Altering the native glycosylation pattern" is intended for purposes herein to mean deleting one or more carbohydrate moieties found in native sequence cancer polypeptide, and/or adding one or more glycosylation sites that are not present in the native sequence cancer polypeptide. Glycosylation patterns can be altered in many ways. Different cell types may be used to express cancer-associated sequences to exhibit different glycosylation patterns.

Addition of glycosylation sites to soft tissue sarcoma cancer polypeptides may also be accomplished by altering the amino acid sequence thereof. The alteration may be made, e.g., by the addition of, or substitution by, one or more serine or threonine residues to the native sequence cancer polypeptide (for O-linked glycosylation sites).

The soft tissue sarcoma cancer amino acid sequence may optionally be altered through changes at the DNA level, particularly by mutating the DNA encoding the cancer polypeptide at preselected bases such that codons are generated that will translate into the desired amino acids.

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Another means of increasing the number of carbohydrate moieties on the soft tissue sarcoma cancer polypeptide is by chemical or enzymatic coupling of glycosides to the polypeptide. See, e.g., WO 87/05330; and pp. 259-306 in Aplin and Wriston (1981) CRC Crit. Rev. Biochem.

Removal of carbohydrate moieties present on the soft tissue sarcoma cancer polypeptide may be accomplished chemically or enzymatically or by mutational substitution of codons encoding for amino acid residues that serve as targets for glycosylation. Chemical deglycosylation techniques are applicable. See, e.g., Sojar and Bahl (1987) Arch. Biochem. Biophys. 259:52-57; and Edge, et al. (1981) Anal. Biochem. 118:131-137. Enzymatic cleavage of carbohydrate moieties on polypeptides can be achieved by the use of a variety of endo- and exo-glycosidases. See, e.g., Thotakura, et al. (1987) Meth. Enzymol. 138:350-359.

Another type of covalent modification of soft tissue sarcoma cancer protein comprises linking the cancer polypeptide to one of a variety of nonproteinaceous polymers, e.g., polyethylene glycol, polypropylene glycol, or polyoxyalkylenes, in the manner set forth in US Patent Nos. 4,640,835; 4,496,689; 4,301,144; 4,670,417; 4,791,192; or 4,179,337.

Soft tissue sarcoma cancer polypeptides of the present invention may also be modified in a way to form chimeric molecules comprising a cancer polypeptide fused to another, heterologous polypeptide or amino acid sequence. In one embodiment, such a chimeric molecule comprises a fusion of a cancer polypeptide with a tag polypeptide which provides an epitope to which an anti-tag antibody can selectively bind. The epitope tag is generally placed at the amino-or carboxyl-terminus of the soft tissue sarcoma cancer polypeptide. The presence of such epitope-tagged forms of a cancer polypeptide can be detected using an antibody against the tag polypeptide. Also, provision of the epitope tag enables the soft tissue sarcoma cancer polypeptide

to be readily purified by affinity purification using an anti-tag antibody or another type of affinity matrix that binds to the epitope tag. In an alternative embodiment, the chimeric molecule may comprise a fusion of a cancer polypeptide with an immunoglobulin or a particular region of an immunoglobulin. For a bivalent form of the chimeric molecule, such a fusion could be to the Fc region of an IgG molecule.

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Various tag polypeptides and their respective antibodies are available. Examples include poly-histidine (poly-his) or poly-histidine-glycine (poly-his-gly) tags; HIS6, and metal chelation tags, the flu HA tag polypeptide and its antibody 12CA5 (Field, et al. (1988) Mol. Cell. Biol. 8:2159-2165); the c-myc tag and the 8F9, 3C7, 6E10, G4, B7, and 9E10 antibodies thereto (Evan, et al. (1985) Mol. Cell. Biol. 5:3610-3616); and the Herpes Simplex virus glycoprotein D (gD) tag and its antibody (Paborsky, et al. (1990) Protein Engineering 3:547-553). Other tag polypeptides include the Flag-peptide (Hopp, et al. (1988) BioTechnology 6:1204-1210); the KT3 epitope peptide (Martin, et al. (1992) Science 255:192-194); tubulin epitope peptide (Skinner, et al. (1991) J. Biol. Chem. 266:15163-15166); and the T7 gene 10 protein peptide tag (Lutz-Freyermuth, et al. (1990) Proc. Nat'l Acad. Sci. USA 87:6393-6397).

Also included with an embodiment of soft tissue sarcoma cancer protein are other soft tissue sarcoma cancer proteins of the functional family, and counterpart cancer proteins from other organisms, which are cloned and expressed as outlined below. Thus, probe or degenerate polymerase chain reaction (PCR) primer sequences may be used to find other related cancer proteins from humans or other organisms. Particularly useful probe and/or PCR primer sequences include unique areas of the soft tissue sarcoma cancer nucleic acid sequence. PCR primers are from about 15-35 nucleotides in length, with from about 20-30 being preferred, and may contain inosine as needed. The conditions for the PCR reaction are well known. See, e.g., Innis, PCR Protocols, supra.

In addition, as is outlined herein, soft tissue sarcoma cancer proteins can be made that are longer than those encoded by the nucleic acids of the Tables, e.g., by the elucidation of extended sequences, the addition of epitope or purification tags, the addition of other fusion sequences, etc.

Soft tissue sarcoma cancer proteins may also be identified as being encoded by soft tissue sarcoma cancer nucleic acids. Thus, soft tissue sarcoma cancer proteins are

encoded by nucleic acids that will hybridize to the sequences of the sequence listings, or their complements, as outlined herein.

Antibodies to soft tissue sarcoma cancer-associated proteins

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In one embodiment, when the soft tissue sarcoma cancer protein is to be used to generate antibodies, e.g., for immunotherapy or immunodiagnosis, the soft tissue sarcoma cancer protein should share at least one epitope or determinant with the full length protein. By "epitope" or "determinant" herein is typically meant a portion of a protein which will generate and/or bind an antibody or T-cell receptor in the context of MHC. Thus, in most instances, antibodies made to a smaller, e.g., fragment of, cancer protein will be able to bind to the full-length protein, particularly linear epitopes. In one embodiment, the epitope is unique; that is, antibodies generated to a unique epitope show little or no cross-reactivity. In another embodiment, the epitope is selected from a protein sequence set out in Tables 1A-11C.

Methods of preparing polyclonal antibodies exist (e.g., Coligan, supra; and Harlow and Lane, supra). Polyclonal antibodies can be raised in a mammal, e.g., by one or more injections of an immunizing agent and, if desired, an adjuvant. Typically, the immunizing agent and/or adjuvant will be injected in the mammal by multiple subcutaneous or intraperitoneal injections. The immunizing agent may include a protein encoded by a nucleic acid of the figures or fragment thereof or a fusion protein thereof. It may be useful to conjugate the immunizing agent to a protein known to be immunogenic in the mammal being immunized. Examples of such immunogenic proteins include but are not limited to keyhole limpet hemocyanin, serum albumin, bovine thyroglobulin, and soybean trypsin inhibitor. Examples of adjuvants which may be employed include Freund's complete adjuvant and MPL-TDM adjuvant (monophosphoryl Lipid A, synthetic trehalose dicorynomycolate). The immunization protocol may be selected without undue experimentation.

The antibodies may, alternatively, be monoclonal antibodies. Monoclonal antibodies may be prepared using hybridoma methods, such as those described by Kohler and Milstein (1975) Nature 256:495-497. In a hybridoma method, a mouse, hamster, or other appropriate host animal, is typically immunized with an immunizing agent to elicit lymphocytes that produce or are capable of producing antibodies that will specifically bind to the immunizing agent. Alternatively, the lymphocytes may be immunized in vitro. The immunizing agent will typically include a polypeptide

encoded by a nucleic acid of Tables 1A-11C, or fragment thereof, or a fusion protein thereof. Generally, either peripheral blood lymphocytes ("PBLs") are used if cells of human origin are desired, or spleen cells or lymph node cells are used if non-human mammalian sources are desired. The lymphocytes are then fused with an 5 immortalized cell line using a suitable fusing agent, such as polyethylene glycol, to form a hybridoma cell (e.g., pp. 59-103 in Goding (1986) Monoclonal Antibodies: Principles and Practice Academic Press). Immortalized cell lines are usually transformed mammalian cells, particularly myeloma cells of rodent, bovine and human origin. Usually, rat or mouse myeloma cell lines are employed. The 10 hybridoma cells may be cultured in a suitable culture medium that preferably contains one or more substances that inhibit the growth or survival of the unfused, immortalized cells. For example, if the parental cells lack the enzyme hypoxanthine guanine phosphoribosyl transferase (HGPRT or HPRT), the culture medium for the hybridomas typically will include hypoxanthine, aminopterin, and thymidine ("HAT medium"), which substances prevent the growth of HGPRT-deficient cells. 15

In one embodiment, the antibodies are bispecific antibodies. Bispecific antibodies are monoclonal, preferably human or humanized, antibodies that have binding specificities for at least two different antigens or that have binding specificities for two epitopes on the same antigen. In one embodiment, one of the binding specificities is for a protein encoded by a nucleic acid Tables 1A-11C or a fragment thereof, the other one is for another antigen, and preferably for a cell-surface protein or receptor or receptor subunit, preferably one that is tumor specific. Alternatively, tetramer-type technology may create multivalent reagents.

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In one embodiment, the antibodies to soft tissue sarcoma cancer protein are capable of reducing or eliminating a biological function of a soft tissue sarcoma cancer protein, as is described below. That is, the addition of anti-soft tissue sarcoma cancer protein antibodies (either polyclonal or preferably monoclonal) to cancer tissue may reduce or eliminate the neoplastic or malignant cancer activity. Generally, at least about 25% decrease in activity, growth, size or the like may be used, with at least about 50% being particularly useful and about 95-100% decrease being especially useful.

In another embodiment the antibodies to the soft tissue sarcoma cancer proteins are humanized antibodies (e.g., Xenerex Biosciences; Medarex, Inc.; Abgenix, Inc.; Protein Design Labs, Inc.). Humanized forms of non-human (e.g.,

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murine) antibodies are chimeric molecules of immunoglobulins, immunoglobulin chains or fragments thereof (such as Fv, Fab, Fab', F(ab')2 or other antigen-binding subsequences of antibodies) which contain minimal sequence derived from nonhuman immunoglobulin. Humanized antibodies include human immunoglobulins (recipient antibody) in which residues form a complementary determining region (CDR) of the recipient are replaced by residues from a CDR of a non-human species (donor antibody) such as mouse, rat or rabbit having the desired specificity, affinity and capacity. In some instances, Fv framework residues of the human immunoglobulin are replaced by corresponding non-human residues. Humanized antibodies may also comprise residues which are found neither in the recipient antibody nor in the imported CDR or framework sequences. In general, a humanized antibody will comprise substantially all of at least one, and typically two, variable domains, in which all or substantially all of the CDR regions correspond to those of a non-human immunoglobulin and all or substantially all of the framework (FR) regions are those of a human immunoglobulin consensus sequence. The humanized antibody optimally also will typically comprise at least a portion of an immunoglobulin constant region (Fc), typically that of a human immunoglobulin (Jones, et al. (1986) Nature 321:522-525; Riechmann, et al. (1988) Nature 332:323-329; and Presta (1992) Curr. Op. Struct. Biol. 2:593-596). Humanization can be essentially performed following the method of Winter and co-workers (Jones, et al. (1986) Nature 321:522-525; Riechmann, et al. (1988) Nature 332:323-327; Verhoeyen, et al. (1988) Science 239:1534-1536), by substituting rodent CDRs or CDR sequences for corresponding sequences of a human antibody. Accordingly, such humanized antibodies are chimeric antibodies (US Patent No. 4,816,567), wherein substantially less than an intact human variable domain has been substituted by corresponding sequence from a non-human species.

Human-like antibodies can also be produced using phage display libraries (Hoogenboom and Winter (1992) J. Mol. Biol. 227:381-388; Marks, et al. (1991) J. Mol. Biol. 222:581-597) or human monoclonal antibodies (e.g., p. 77, Cole, et al. in Reisfeld and Sell (1985) Monoclonal Antibodies and Cancer Therapy Liss; and Boerner, et al. (1991) J. Immunol. 147:86-95). Similarly, human antibodies can be made by introducing human immunoglobulin loci into transgenic animals, e.g., mice in which the endogenous immunoglobulin genes have been partially or completely

inactivated. Upon challenge, human antibody production is observed, which closely resembles that seen in humans in nearly all respects, including gene rearrangement, assembly, and antibody repertoire. This approach is described, e.g., in US Patent Nos. 5,545,807; 5,545,806; 5,569,825; 5,625,126; 5,633,425; 5,661,016, and in the following scientific publications: Marks, et al. (1992) Bio/Technology 10:779-783; Lonberg, et al. (1994) Nature 368:856-859; Morrison (1994) Nature 368:812-13; Fishwild, et al. (1996) Nature Biotechnology 14:845-851, commented on in Neuberger (1996) Nature Biotechnology 14:826; and Lonberg and Huszar (1995) Intern. Rev. Immunol. 13:65-93.

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By immunotherapy is meant treatment of soft tissue sarcoma cancer or related disease with an antibody raised against, e.g., proteins. As used herein, immunotherapy can be passive or active. Passive immunotherapy as defined herein is the passive transfer of antibody to a recipient (patient). Active immunization is the induction of antibody and/or T-cell responses in a recipient (patient). Induction of an immune response is the result of providing the recipient with an antigen to which antibodies are raised. The antigen may be provided by injecting a polypeptide against which antibodies are desired to be raised into a recipient, or contacting the recipient with a nucleic acid capable of expressing the antigen and under conditions for expression of the antigen, leading to an immune response.

In one embodiment the soft tissue sarcoma cancer proteins against which antibodies are raised are secreted proteins as described above. Without being bound by theory, antibodies used for treatment may bind and prevent the secreted protein from binding to its receptor, thereby inactivating the secreted cancer protein, e.g., in autocrine signaling.

In another embodiment, the soft tissue sarcoma cancer protein to which antibodies are raised is a transmembrane protein. Without being bound by theory, antibodies used for treatment often bind the extracellular domain of the cancer protein and prevent it from binding to other proteins, such as circulating ligands or cell-associated molecules. The antibody may cause down-regulation of the transmembrane cancer protein. The antibody may be a competitive, non-competitive, or uncompetitive inhibitor of protein binding to the extracellular domain of the cancer protein. The antibody may be an antagonist of the cancer protein. Further, the antibody prevents activation of the transmembrane cancer protein. In one aspect, when the antibody prevents the binding of other molecules to the cancer protein, the

antibody prevents growth of the cell. The antibody may also be used to target or sensitize the cell to cytotoxic agents, including, but not limited to TNF-α, TNF-β, IL-1, INF-γ, and IL-2, or chemotherapeutic agents including 5FU, vinblastine, actinomycin D, cisplatin, methotrexate, and the like. In some instances the antibody belongs to a sub-type that activates serum complement, or a similar effector function, when complexed with the transmembrane protein thereby mediating cytotoxicity or antigen-dependent cytotoxicity (ADCC). Thus, soft tissue sarcoma cancer is treated by administering to a patient antibodies directed against the transmembrane cancer protein. Antibody-labeling may activate a co-toxin, localize a toxin payload, or otherwise provide means to locally ablate cells.

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In another embodiment, the antibody is conjugated or fused to an effector moiety. The effector moiety can be a labeling moiety, e.g., a radioactive or fluorescent label, or a therapeutic moiety. In one aspect the therapeutic moiety is a small molecule that modulates the activity of the soft tissue sarcoma cancer protein. In another aspect the therapeutic moiety modulates the activity of molecules associated with or in close proximity to the soft tissue sarcoma cancer protein. The therapeutic moiety may inhibit enzymatic activity such as protease or collagenase activity associated with the cancer, or be an attractant of other cells, such as NK cells. See, e.g., Groh, et al. (2002) Nature 419:734-738.

In one embodiment, the therapeutic moiety can also be a cytotoxic agent. In this method, targeting the cytotoxic agent to soft tissue sarcoma cancer tissue or cells, results in a reduction in the number of afflicted cells, thereby reducing symptoms associated with cancer. Cytotoxic agents are numerous and varied and include, but are not limited to, cytotoxic drugs or toxins or active fragments of such toxins. Suitable toxins and their corresponding fragments include diphtheria A chain, exotoxin A chain, ricin A chain, abrin A chain, curcin, crotin, phenomycin, enomycin, and the like. Cytotoxic agents also include radiochemicals made by conjugating radioisotopes to antibodies raised against soft tissue sarcoma cancer proteins, or binding of a radionuclide to a chelating agent that has been covalently attached to the antibody. Targeting the therapeutic moiety to transmembrane cancer proteins not only serves to increase the local concentration of therapeutic moiety in the cancer afflicted area, but also serves to reduce deleterious side effects that may be associated with the therapeutic moiety.

In another embodiment, the soft tissue sarcoma cancer protein against which the antibodies are raised is an intracellular protein. In this case, the antibody may be conjugated or fused to a protein which facilitates entry into the cell. In one case, the antibody enters the cell by endocytosis. In another embodiment, a nucleic acid encoding the antibody is administered to the individual or cell. Moreover, wherein the soft tissue sarcoma cancer protein can be targeted within a cell, e.g., the nucleus, an antibody thereto contains a signal for that target localization, e.g., a nuclear localization signal.

The soft tissue sarcoma cancer antibodies of the invention specifically bind to soft tissue sarcoma cancer proteins. By "specifically bind" herein is meant that the antibodies bind to the protein with a K_d of at least about 0.1 mM, more usually at least about 1 μ M, preferably at least about 0.1 μ M or better, and most preferably, 0.01 μ M or better. Selectivity of binding to the specific target and not to related sequences is often also important

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Detection of soft tissue sarcoma cancer-associated sequence for diagnostic and therapeutic applications

In one aspect, the RNA expression levels of genes are determined for different cellular states in the soft tissue sarcoma cancer phenotype. Expression levels of genes in normal tissue (e.g., not exhibiting soft tissue sarcoma cancer) and in soft tissue sarcoma cancer tissue (and in some cases, for varying severities of soft tissue sarcoma cancer that relate to prognosis, as outlined below) are evaluated to provide expression profiles. An expression profile of a particular cell state or point of development is essentially a "fingerprint" of the state. While two states may have a particular gene similarly expressed, the evaluation of a number of genes simultaneously allows the generation of a gene expression profile that is reflective of the state of the cell. By comparing expression profiles of cells in different states, information regarding which genes are important (including both up- and down-regulation of genes) in each of these states is obtained. Then, diagnosis may be performed or confirmed to determine whether a tissue sample has the gene expression profile of normal or cancer tissue. This will provide for molecular diagnosis of related conditions.

"Differential expression," or grammatical equivalents as used herein, refers to qualitative or quantitative differences in the temporal and/or cellular gene expression

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patterns within and among cells and tissue. Thus, a differentially expressed gene can qualitatively have its expression altered, including an activation or inactivation, in. e.g., normal versus cancer tissue. Genes may be turned on or turned off in a particular state, relative to another state thus permitting comparison of two or more states. A qualitatively regulated gene will exhibit an expression pattern within a state or cell type which is detectable by standard techniques. Some genes will be expressed in one state or cell type, but not in both. Alternatively, the difference in expression may be quantitative, e.g., in that expression is increased or decreased; e.g., gene expression is either upregulated, resulting in an increased amount of transcript, or downregulated. resulting in a decreased amount of transcript. The degree to which expression differs need only be large enough to quantify via standard characterization techniques, e.g., as by use of Affymetrix GENECHIP® expression arrays. See, Lockhart (1996) Nature Biotechnology 14:1675-1680. Other techniques include, but are not limited to, quantitative reverse transcriptase PCR, Northern analysis and RNase protection. As outlined above, preferably the change in expression (e.g., upregulation or downregulation) is at least about 50%, more preferably at least about 100%, more preferably at least about 150%, more preferably at least about 200%, with from 300 to at least 1000% being especially useful.

Evaluation may be at the gene transcript, or the protein level. The amount of gene expression may be monitored using nucleic acid probes to the DNA or RNA equivalent of the gene transcript, and the quantification of gene expression levels, or, alternatively, the final gene product itself (protein) can be monitored, e.g., with antibodies to the soft tissue sarcoma cancer protein and standard immunoassays (ELISAs, etc.) or other techniques, including mass spectroscopy assays, 2D gel electrophoresis assays, etc. Proteins corresponding to soft tissue sarcoma cancer genes, e.g., those identified as being important in a soft tissue sarcoma cancer phenotype, can be evaluated in a soft tissue sarcoma cancer diagnostic test. In one embodiment, gene expression monitoring is performed simultaneously on a number of genes. Multiple protein expression monitoring can be performed as well. Similarly, these assays may be performed on an individual basis as well.

In this embodiment, the soft tissue sarcoma cancer nucleic acid probes are attached to biochips as outlined herein for the detection and quantification of soft

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tissue sarcoma cancer sequences in a particular cell. The assays are further described below in the example. PCR techniques can be used to provide greater sensitivity.

In one embodiment nucleic acids encoding the soft tissue sarcoma cancer protein are detected. Although DNA or RNA encoding the soft tissue sarcoma cancer protein may be detected, of particular interest are methods wherein an mRNA encoding a cancer protein is detected. Probes to detect mRNA can be a nucleotide/deoxynucleotide probe that is complementary to and hybridizes with the mRNA and includes, but is not limited to, oligonucleotides, cDNA or RNA. Probes also should contain a detectable label, as defined herein. In one method the mRNA is detected after immobilizing the nucleic acid to be examined on a solid support such as nylon membranes and hybridizing the probe with the sample. Following washing to remove the non-specifically bound probe, the label is detected. In another method detection of the mRNA is performed in situ. In this method permeabilized cells or tissue samples are contacted with a detectably labeled nucleic acid probe for sufficient time to allow the probe to hybridize with the target mRNA. Following washing to remove the non-specifically bound probe, the label is detected. For example, a digoxygenin labeled riboprobe (RNA probe) that is complementary to the mRNA encoding a cancer protein is detected by binding the digoxygenin with an antidigoxygenin secondary antibody and developed with nitro blue tetrazolium and 5bromo-4-chloro-3-indoyl phosphate.

In one embodiment, various proteins from the three classes of proteins as described herein (secreted, transmembrane or intracellular proteins) are used in diagnostic assays. The soft tissue sarcoma cancer proteins, antibodies, nucleic acids, modified proteins and cells containing cancer sequences are used in diagnostic assays. This can be performed on an individual gene or corresponding polypeptide level. In another embodiment, the expression profiles are used, preferably in conjunction with high throughput screening techniques to allow monitoring for expression profile genes and/or corresponding polypeptides.

As described and defined herein, soft tissue sarcoma cancer proteins, including intracellular, transmembrane, or secreted proteins, find use as markers of soft tissue sarcoma cancer, e.g., for prognostic or diagnostic purposes. Detection of these proteins in putative soft tissue sarcoma cancer tissue allows for detection, prognosis, or diagnosis of cancer, and for selection of therapeutic strategy. In one embodiment, antibodies are used to detect soft tissue sarcoma cancer proteins. One method

separates proteins from a sample by electrophoresis on a gel (typically a denaturing and reducing protein gel, but may be another type of gel, including isoelectric focusing gels and the like). Following separation of proteins, the cancer protein is detected, e.g., by immunoblotting with antibodies raised against the cancer protein.

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In another method, antibodies to the soft tissue sarcoma cancer protein find use in in situ imaging techniques, e.g., in histology. See, e.g., Asai, et al. (eds. 1993) Methods in Cell Biology: Antibodies in Cell Biology (vol. 37) Academic Press. In this method cells are contacted with from one to many antibodies to the soft tissue sarcoma cancer protein(s). Following washing to remove non-specific antibody binding, the presence of the antibody or antibodies is detected. In one embodiment the antibody is detected by incubating with a secondary antibody that contains a detectable label. In another method the primary antibody to the soft tissue sarcoma cancer protein(s) contains a detectable label, e.g., an enzyme marker that can act on a substrate. In another embodiment each one of multiple primary antibodies contains a distinct and detectable label. This method finds particular use in simultaneous screening for a plurality of soft tissue sarcoma cancer proteins. Many other histological imaging techniques are also provided by the invention.

In one embodiment the label is detected in a fluorometer which has the ability to detect and distinguish emissions of different wavelengths. In addition, a fluorescence activated cell sorter (FACS) can be used in the method.

In another embodiment, antibodies find use in diagnosing soft tissue sarcoma cancer from biological samples, such as blood, urine, sputum, semen, or other bodily fluids. As previously described, certain cancer proteins are secreted/circulating molecules. Blood or semen samples, therefore, are useful as samples to be probed or tested for the presence of secreted cancer proteins. Antibodies can be used to detect a soft tissue sarcoma cancer protein by previously described immunoassay techniques including ELISA, immunoblotting (Western blotting), immunoprecipitation, BIACORE technology and the like. Conversely, the presence of antibodies may indicate an immune response against an endogenous soft tissue sarcoma cancer protein.

In one embodiment, in situ hybridization of labeled cancer nucleic acid probes to tissue arrays is done. For example, arrays of tissue samples, including cancer tissue and/or normal tissue, are made. In situ hybridization (see, e.g., Ausubel, supra) is then performed. When comparing the fingerprints between an individual and a

standard, the skilled artisan can make a diagnosis, a prognosis, or a prediction based on the findings. It is further understood that the genes which indicate the diagnosis may differ from those which indicate the prognosis and molecular profiling of the condition of the cells may lead to distinctions between responsive or refractory conditions or may be predictive of outcomes.

Assays for Prognosis of Soft Tissue Sarcoma Disorders

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In one embodiment, the cancer proteins, antibodies, nucleic acids, modified proteins and cells containing cancer sequences are used in prognosis assays. As above, gene expression profiles can be generated that correlate to soft tissue sarcoma cancer severity, in terms of long term prognosis. Again, this may be done on either a protein or gene level, with the use of genes included. For example, P-glycoprotein and Ki-67 antigen are promising markers for 5-year overall and disease-free survival for soft tissue sarcoma patients. Levine E.A. et al., Evaluation of new prognostic markers for adult soft tissue sarcomas, J. Clin. Oncol. 15:3249-57 (1997). Other markers may be similarly

identified that correlate to soft tissue sarcoma cancer severity, or survival rates of soft tissue sarcoma patients.

As above, cancer probes may be attached to biochips for the detection and quantification of cancer sequences in a tissue or patient. The assays proceed as outlined above for diagnosis. PCR method may provide more sensitive and accurate quantification.

Genes useful in prognostic assays are genes that are differentially expressed according to the stage of illness of the patient. In one embodiment, the genes may be uniquely expressed according to the stage of the patient. In another embodiment, the genes may be expressed at differential levels according to the stage of the patient. INSERT EXAMPLE OF PROGNOSTIC ASSAY The correlation of genes expressed in the different stages, either uniquely expressed or have differential expression levels according to the stage, may be used to determine the viability of inducing remission in a patient. In addition, genes that are expressed indicating onset of long-term complications may also be useful as a prognostic tool.

Assays for therapeutic compounds

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The soft tissue sarcoma cancer proteins, antibodies, nucleic acids, modified proteins and cells containing soft tissue sarcoma cancer sequences are used in drug screening assays or by evaluating the effect of drug candidates on a "gene expression profile" or expression profile of polypeptides. In one embodiment, the expression profiles are used, preferably in conjunction with high throughput screening techniques to allow monitoring for expression profile genes after treatment with a candidate agent. See, e.g., Zlokarnik, et al. (1998) Science 279:84-88; and Heid (1996) Genome Res. 6:986-994.

In one embodiment, the soft tissue sarcoma cancer proteins, antibodies, nucleic acids, modified proteins and cells containing the native or modified soft tissue sarcoma cancer proteins are used in screening assays. That is, the present invention provides novel methods for screening for compositions which modulate the soft tissue sarcoma cancer phenotype or an identified physiological function of a soft tissue sarcoma cancer protein. As above, this can be done on an individual gene level or by evaluating the effect of drug candidates on a "gene expression profile". In one embodiment, the expression profiles are used, preferably in conjunction with high throughput screening techniques to allow monitoring for expression profile genes after treatment with a candidate agent, see Zlokarnik, supra.

Having identified the differentially expressed genes herein, a variety of assays may be executed. In one embodiment, assays may be run on an individual gene or protein level. That is, having identified a particular gene as up regulated in soft tissue sarcoma cancer, test compounds can be screened for the ability to modulate gene expression or for binding to the cancer protein. "Modulation" thus includes both an increase and a decrease in gene expression. The amount of modulation will depend on the original change of the gene expression in normal versus tissue exhibiting soft tissue sarcoma cancer, with changes of at least about 10%, preferably about 50%, more preferably about 100-300%, and in some embodiments 300-1000% or greater. Thus, if a gene exhibits a 4-fold increase in cancer tissue compared to normal tissue, a decrease of about four-fold is often desired; similarly, a 10-fold decrease in cancer tissue compared to normal tissue often provides a target value of a 10-fold increase in expression to be induced by the test compound.

The amount of gene expression may be monitored using nucleic acid probes and the quantification of gene expression levels, or, alternatively, the gene product

itself can be monitored, e.g., through the use of antibodies to the cancer protein and standard immunoassays. Proteomics and separation techniques may also allow quantification of expression.

In one embodiment, gene expression or protein monitoring of a number of entities, e.g., an expression profile, is monitored simultaneously. Such profiles will typically involve a plurality of those entities described herein.

In this embodiment, the soft tissue sarcoma cancer nucleic acid probes are attached to biochips as outlined herein for the detection and quantification of cancer sequences in a particular cell. Alternatively, PCR may be used. Thus, a series, e.g., of microtiter plate, may be used with dispensed primers in desired wells. A PCR reaction can then be performed and analyzed for each well.

Modulators of soft tissue sarcoma cancer

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Expression monitoring can be performed to identify compounds that modify
the expression of one or more soft tissue sarcoma cancer-associated sequences, e.g., a
polynucleotide sequence set out in the Tables. Generally, in one embodiment, a test
modulator is added to the cells prior to analysis. Moreover, screens are also provided
to identify agents that modulate soft tissue sarcoma cancer, modulate soft tissue
sarcoma cancer proteins, bind to a soft tissue sarcoma cancer protein, or interfere with
the binding of a soft tissue sarcoma cancer protein and an antibody or other binding
partner.

The term "test compound" or "drug candidate" or "modulator" or grammatical equivalents as used herein describes a molecule, e.g., protein, oligopeptide, small organic molecule, polysaccharide, polynucleotide, etc., to be tested for the capacity to directly or indirectly alter the cancer phenotype or the expression of a cancer sequence, e.g., a nucleic acid or protein sequence. In several embodiments, modulators alter expression profiles, or expression profile nucleic acids or proteins provided herein. In one embodiment, the modulator suppresses a soft tissue sarcoma cancer phenotype, e.g., to a normal tissue fingerprint. In another embodiment, a modulator induced a cancer phenotype. Generally, a plurality of assay mixtures are run in parallel with different agent concentrations to obtain a differential response to the various concentrations. Typically, one of these concentrations serves as a negative control, e.g., at zero concentration or below the level of detection.

Drug candidates encompass numerous chemical classes, though typically they are organic molecules, preferably small organic compounds having a molecular weight of more than 100 and less than about 2,500 daltons. Small molecules may be less than 2000, or less than 1500, or less than 1000, or less than 500 D. Candidate agents comprise functional groups necessary for structural interaction with proteins, particularly hydrogen bonding, and typically include at least an amine, carbonyl, hydroxyl or carboxyl group, preferably at least two of the functional chemical groups. The candidate agents often comprise cyclical carbon or heterocyclic structures and/or aromatic or polyaromatic structures substituted with one or more of the above functional groups. Candidate agents are also found among biomolecules including peptides, saccharides, fatty acids, steroids, purines, pyrimidines, derivatives, structural analogs, or combinations thereof. Particularly useful are peptides.

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In one aspect, a modulator will neutralize the effect of a soft tissue sarcoma cancer protein. By "neutralize" is meant that activity of a protein is inhibited or blocked and thereby has substantially no effect on a cell.

In certain embodiments, combinatorial libraries of potential modulators will be screened for an ability to bind to a soft tissue sarcoma cancer polypeptide or to modulate activity. Conventionally, new chemical entities with useful properties are generated by identifying a chemical compound (called a "lead compound") with some desirable property or activity, e.g., inhibiting activity, creating variants of the lead compound, and evaluating the property and activity of those variant compounds. Often, high throughput screening (HTS) methods are employed for such an analysis. See, e.g., Janzen (2002) High Throughput Screening: Methods and Protocols Humana; Devlin (ed. 1997) High Throughput Screening: The Discovery of Bioactive Substances Dekker; and Mei and Czarnik (eds. 2002) Integrated Drug Discovery Techniques Dekker.

In one embodiment, high throughput screening methods involve providing a library containing a large number of potential therapeutic compounds (candidate compounds). Such "combinatorial chemical libraries" are then screened in one or more assays to identify those library members (particular chemical species or subclasses) that display a desired characteristic activity. The compounds thus identified can serve as conventional "lead compounds" or can themselves be used as potential or actual therapeutics.

A combinatorial chemical library is a collection of diverse chemical compounds generated by either chemical synthesis or biological synthesis by combining a number of chemical "building blocks" such as reagents. For example, a linear combinatorial chemical library, such as a polypeptide (e.g., mutein) library, is formed by combining a set of chemical building blocks called amino acids in every possible way for a given compound length (e.g., the number of amino acids in a polypeptide compound). Millions of chemical compounds can be synthesized through such combinatorial mixing of chemical building blocks. See Gallop, et al. (1994) J. Med. Chem. 37:1233-1251.

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10 Preparation and screening of combinatorial chemical libraries is well known. Such combinatorial chemical libraries include, but are not limited to, peptide libraries (see, e.g., US Patent No. 5,010,175, Furka (1991) Pept. Prot. Res. 37:487-493, Houghton, et al. (1991) Nature 354:84-88), peptoids (PCT Publication No WO 91/19735), encoded peptides (PCT Publication WO 93/20242), random bio-oligomers (PCT Publication WO 92/00091), benzodiazepines (US Pat. No. 5,288,514), 15 diversomers such as hydantoins, benzodiazepines and dipeptides (Hobbs, et al. (1993) Proc. Nat'l Acad. Sci. USA 90:6909-6913), vinylogous polypeptides (Hagihara, et al. (1992) J. Amer. Chem. Soc. 114:6568), nonpeptidal peptidomimetics with a Beta-D-Glucose scaffolding (Hirschmann, et al. (1992) J. Amer. Chem. Soc. 114:9217-9218). 20 analogous organic syntheses of small compound libraries (Chen, et al. (1994) J. Amer. Chem. Soc. 116:2661), oligocarbamates (Cho, et al. (1993) Science 261:1303-1305). and/or peptidyl phosphonates (Campbell, et al. (1994) J. Org. Chem. 59:658-xxx). See, generally, Gordon, et al. (1994) J. Med. Chem. 37:1385-1401, nucleic acid libraries (see, e.g., Stratagene, Corp.), peptide nucleic acid libraries (see, e.g., US 25 Patent 5,539,083), antibody libraries (see, e.g., Vaughn, et al. (1996) Nature Biotechnology 14:309-314, and PCT/US96/10287), carbohydrate libraries (see, e.g., Liang, et al. (1996) Science 274:1520-1522, and US Patent No. 5,593,853), and small organic molecule libraries (see, e.g., benzodiazepines, page 33 Baum (Jan 18, 1993) C&E News); isoprenoids (US Patent No. 5,569,588); thiazolidinones and metathiazanones (US Patent No. 5,549,974); pyrrolidines (US Patent Nos. 5,525,735 30 and 5,519,134); morpholino compounds (US Patent No. 5,506,337); benzodiazepines (US Patent No. 5,288,514); and the like.

Devices for the preparation of combinatorial libraries are commercially available. See, e.g., 357 MPS, 390 MPS, Advanced Chem Tech, Louisville KY:

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Symphony, Rainin, Woburn, MA; 433A Applied Biosystems, Foster City, CA; 9050 Plus, Millipore, Bedford, MA.

A number of well known robotic systems have also been developed for solution phase chemistries. These systems include automated workstations like the automated synthesis apparatus developed by Takeda Chemical Industries, LTD. (Osaka, Japan) and many robotic systems utilizing robotic arms (Zymate II, Zymark Corporation, Hopkinton, MA; Orca, Hewlett-Packard, Palo Alto, CA), which mimic the manual synthetic operations performed by a chemist. The above devices are suitable for use with the present invention. The nature and implementation of modifications to these devices (if any) so that they can operate as discussed herein will be apparent. In addition, numerous combinatorial libraries are themselves commercially available. See, e.g., ComGenex, Princeton, NJ; Asinex, Moscow, Ru; Tripos, Inc., St. Louis, MO; ChemStar, Ltd, Moscow, RU; 3D Pharmaceuticals, Exton, PA; Martek Biosciences, Columbia, MD; etc.

The assays to identify modulators are amenable to high throughput screening. Assays thus detect enhancement or inhibition of cancer gene transcription, inhibition or enhancement of polypeptide expression, and inhibition or enhancement of polypeptide activity.

High throughput assays for the presence, absence, quantification, or other properties of particular nucleic acids or protein products are well known, as are binding assays and reporter gene assays. Thus, e.g., US Patent No. 5,559,410 discloses high throughput screening methods for proteins, US Patent No. 5,585,639 discloses high throughput screening methods for nucleic acid binding (e.g., in arrays), while US Patent Nos. 5,576,220 and 5,541,061 disclose high throughput methods of screening for ligand/antibody binding.

In addition, high throughput screening systems are commercially available. See, e.g., Zymark Corp., Hopkinton, MA; Air Technical Industries, Mentor, OH; Beckman Instruments, Inc., Fullerton, CA; Precision Systems, Inc., Natick, MA, etc. These systems typically automate entire procedures, including sample and reagent pipetting, liquid dispensing, timed incubations, and final readings of the microplate in detector(s) appropriate for the assay. These configurable systems provide high throughput and rapid start up as well as a high degree of flexibility and customization. The manufacturers of such systems provide detailed protocols for various high throughput systems. Thus, e.g., Zymark Corp. provides technical bulletins describing

screening systems for detecting the modulation of gene transcription, ligand binding, and the like.

In one embodiment, modulators are proteins, often naturally occurring proteins or fragments of naturally occurring proteins. Thus, e.g., cellular extracts containing proteins, or random or directed digests of proteinaceous cellular extracts, may be used. In this way libraries of proteins may be made for screening in the methods of the invention. Particularly useful in this embodiment are libraries of bacterial, fungal, viral, and mammalian proteins, including human proteins.

Particularly useful test compound will be directed to the class of proteins to which the target belongs, e.g., substrates for enzymes or ligands and receptors.

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In one embodiment, modulators are peptides of from about 5-30 amino acids, with from about 5-20 amino acids being preferred, and from about 7-15 being particularly preferred. The peptides may be digests of naturally occurring proteins as is outlined above, random peptides, or "biased" random peptides. By "randomized" or grammatical equivalents herein is meant that each nucleic acid and peptide consists of essentially random nucleotides and amino acids, respectively. Since generally these random peptides (or nucleic acids, discussed below) are chemically synthesized, they may incorporate nucleotide or amino acid variations. The synthetic process can be designed to generate randomized proteins or nucleic acids, to allow the formation of the possible combinations over the length of the sequence, thus forming a library of randomized candidate bioactive proteinaceous agents.

In one embodiment, the library is fully randomized, with no sequence preferences or constants. In one embodiment, the library is biased. That is, some positions within the sequence are either held constant, or are selected from a limited number of possibilities. For example, in one embodiment, the nucleotides or amino acid residues are randomized within a defined class, e.g., of hydrophobic amino acids, hydrophilic residues, sterically biased (either small or large) residues, towards the creation of nucleic acid binding domains, the creation of cysteines, for cross-linking, prolines for SH-3 domains, serines, threonines, tyrosines, or histidines for phosphorylation sites, etc., or to purines, etc.

Modulators of soft tissue sarcoma cancer can also be nucleic acids, as defined above.

As described above generally for proteins, nucleic acid modulating agents may be naturally occurring nucleic acids, random nucleic acids, or "biased" random

nucleic acids. For example, digests of prokaryotic or eukaryotic genomes may be used as is outlined above for proteins.

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In one embodiment, the candidate compounds are organic chemical moieties, a wide variety of which are available in the literature.

After the candidate agent has been added and the cells allowed to incubate for some period of time, the sample containing a target sequence to be analyzed is added to the biochip. If required, the target sequence is prepared using known techniques. For example, the sample may be treated to lyse the cells, using known lysis buffers, electroporation, etc., with purification and/or amplification such as PCR performed as appropriate. For example, an in vitro transcription with labels covalently attached to the nucleotides is performed. Generally, the nucleic acids are labeled with biotin-FITC or PE, or with cy3 or cy5.

In one embodiment, the target sequence is labeled with, e.g., a fluorescent, a chemiluminescent, a chemical, or a radioactive signal, to provide a means of detecting the target sequence's specific binding to a probe. The label also can be an enzyme, such as, alkaline phosphatase or horseradish peroxidase, which when provided with an appropriate substrate produces a product that can be detected. Alternatively, the label can be a labeled compound or small molecule, such as an enzyme inhibitor, that binds but is not catalyzed or altered by the enzyme. The label also can be a moiety or compound, such as, an epitope tag or biotin which specifically binds to streptavidin. For the example of biotin, the streptavidin is labeled as described above, thereby, providing a detectable signal for the bound target sequence. Unbound labeled streptavidin is typically removed prior to analysis.

These assays can be direct hybridization assays or can comprise "sandwich assays", which include the use of multiple probes. See, e.g., US Patent Nos. 5,681,702; 5,597,909; 5,545,730; 5,594,117; 5,591,584; 5,571,670; 5,580,731; 5,571,670; 5,591,584; 5,624,802; 5,635,352; 5,594,118; 5,359,100; 5,124,246; and 5,681,697. The target nucleic acid may be prepared as outlined above, and then added to the biochip comprising a plurality of nucleic acid probes, under conditions that allow the formation of a hybridization complex.

A variety of hybridization conditions may be used in the present invention, including high, moderate, and low stringency conditions as outlined above. The assays are generally run under stringency conditions which allows formation of the label probe hybridization complex only in the presence of target. Stringency can be

controlled by altering a step parameter that is a thermodynamic variable, including, but not limited to, temperature, formamide concentration, salt concentration, chaotropic salt concentration, pH, organic solvent concentration, etc.

These parameters may also be used to control non-specific binding. See US Patent No. 5,681,697. Thus it may be desirable to perform certain steps at higher stringency conditions to reduce non-specific binding.

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The reactions outlined herein may be accomplished in a variety of ways. Components of the reaction may be added simultaneously, or sequentially, in different orders, with several embodiments outlined below. In addition, the reaction may include a variety of other reagents. These include salts, buffers, neutral proteins, e.g., albumin, detergents, etc., which may be used to facilitate optimal hybridization and detection, and/or reduce non-specific or background interactions. Reagents that otherwise improve the efficiency of the assay, such as protease inhibitors, nuclease inhibitors, anti-microbial agents, etc., may also be used as appropriate, depending on the sample preparation methods and purity of the target.

The assay data are analyzed to determine the expression levels, and changes in expression levels as between states, of individual genes, forming a gene expression profile.

Screens are performed to identify modulators of the soft tissue sarcoma cancer phenotype. In one embodiment, screening is performed to identify modulators that can induce or suppress a particular expression profile, thus preferably generating the associated phenotype. In another embodiment, e.g., for diagnostic applications, having identified differentially expressed genes important in a particular state, screens can be performed to identify modulators that alter expression of individual genes. In an another embodiment, screening is performed to identify modulators that alter a biological function of the expression product of a differentially expressed gene. Again, having identified the importance of a gene in a particular state, screens are performed to identify agents that bind and/or modulate the biological activity of the gene product.

In addition, screens can be done for genes that are induced in response to a candidate agent. After identifying a modulator based upon its ability to suppress a soft tissue sarcoma cancer expression pattern leading to a normal expression pattern, or to modulate a single cancer gene expression profile so as to mimic the expression of the gene from normal tissue, a screen as described above can be performed to

identify genes that are specifically modulated in response to the agent. Comparing expression profiles between normal tissue and agent treated soft tissue sarcoma cancer tissue reveals genes that are not expressed in normal tissue or soft tissue sarcoma cancer tissue, but are expressed in agent treated tissue. These agent-specific sequences can be identified and used by methods described herein for cancer genes or proteins. In particular, these sequences and the proteins they encode find use in marking or identifying agent treated cells. In addition, antibodies can be raised against the agent induced proteins and used to target novel therapeutics to the treated soft tissue sarcoma cancer tissue sample.

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Thus, in one embodiment, a test compound is administered to a population of cancer cells, that have an associated soft tissue sarcoma cancer expression profile. By "administration" or "contacting" herein is meant that the candidate agent is added to the cells in such a manner as to allow the agent to act upon the cell, whether by uptake and intracellular action, or by action at the cell surface. In some embodiments, nucleic acid encoding a proteinaceous candidate agent (e.g., a peptide) may be put into a viral construct such as an adenoviral or retroviral construct, and added to the cell, such that expression of the peptide agent is achieved. See PCT US97/01019.

Regulatable gene therapy systems can also be used.

Once the test compound has been administered to the cells, the cells can be washed if desired and are allowed to incubate under preferably physiological conditions for some period of time. The cells are then harvested and a new gene expression profile is generated, as outlined herein.

Thus, e.g., soft tissue sarcoma cancer tissue may be screened for agents that modulate, e.g., induce or suppress the cancer phenotype. A change in at least one gene, preferably many, of the expression profile indicates that the agent has an effect on the cancer activity. By defining such a signature for the soft tissue sarcoma cancer phenotype, screens for new drugs that alter the phenotype can be devised. With this approach, the drug target need not be known and need not be represented in the original expression screening platform, nor does the level of transcript for the target protein need to change.

In one embodiment, as outlined above, screens may be done on individual genes and gene products (proteins). That is, having identified a particular differentially expressed gene as important in a particular state, screening of modulators of either the expression of the gene or the gene product itself can be done.

The gene products of differentially expressed genes are sometimes referred to herein as "cancer proteins" or a "cancer modulatory protein". The cancer modulatory protein may be a fragment, or alternatively, be the full length protein to the fragment encoded by the nucleic acids of the Tables. Preferably, the cancer modulatory protein is a fragment. In one embodiment, the cancer amino acid sequence which is used to determine sequence identity or similarity is encoded by a nucleic acid of the Tables. In another embodiment, the sequences are naturally occurring allelic variants of a protein encoded by a nucleic acid of the Tables. In another embodiment, the sequences are sequence variants as further described herein.

Preferably, the cancer modulatory protein is a fragment of approximately 14-24 amino acids long. More preferably the fragment is a soluble fragment. Preferably, the fragment includes a non-transmembrane region. In one embodiment, the fragment has an N-terminal Cys to aid in solubility. In one embodiment, the C-terminus of the fragment is kept as a free acid and the N-terminus is a free amine to aid in coupling, e.g., to cysteine.

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In one embodiment the cancer proteins are conjugated to an immunogenic agent as discussed herein. In one embodiment the cancer protein is conjugated to BSA

Measurements of soft tissue sarcoma cancer polypeptide activity, or of soft 20 tissue sarcoma cancer or cancer phenotype can be performed using a variety of assays. For example, the effects of the test compounds upon the function of the soft tissue sarcoma cancer polypeptides can be measured by examining parameters described above. A suitable physiological change that affects activity can be used to assess the influence of a test compound on the polypeptides of this invention. When the 25 functional consequences are determined using intact cells or animals, one can also measure a variety of effects associated with tumors, tumor growth, neovascularization, hormone release, transcriptional changes to both known and uncharacterized genetic markers (e.g., northern blots), changes in cell metabolism such as cell growth or pH changes, and changes in intracellular second messengers such as cGMP. In the assays of the invention, mammalian soft tissue sarcoma cancer 30 polypeptide is typically used, e.g., mouse, preferably human.

Assays to identify compounds with modulating activity can be performed in vitro. For example, a soft tissue sarcoma cancer polypeptide is first contacted with a potential modulator and incubated for a suitable amount of time, e.g., from about 0.5-

48 hours. In one embodiment, the soft tissue sarcoma cancer polypeptide levels are determined in vitro by measuring the level of protein or mRNA. The level of protein is typically measured using immunoassays such as western blotting, ELISA, and the like with an antibody that selectively binds to the soft tissue sarcoma cancer polypeptide or a fragment thereof. For measurement of mRNA, amplification, e.g., using PCR, LCR, or hybridization assays, e.g., northern hybridization, RNAse protection, dot blotting, are included. The level of protein or mRNA is typically detected using directly or indirectly labeled detection agents, e.g., fluorescently or radioactively labeled nucleic acids, radioactively or enzymatically labeled antibodies, and the like, as described herein.

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Alternatively, a reporter gene system can be devised using a soft tissue sarcoma cancer protein promoter operably linked to a reporter gene such as luciferase, green fluorescent protein, CAT, or β -gal. The reporter construct is typically transfected into a cell. After treatment with a potential modulator, the amount of reporter gene transcription, translation, or activity is measured according to standard techniques.

In one embodiment, as outlined above, screens may be done on individual genes and gene products (proteins). That is, having identified a particular differentially expressed gene as important in a particular state, screening of modulators of the expression of the gene or the gene product itself can be done. The gene products of differentially expressed genes are sometimes referred to herein as "soft tissue sarcoma cancer proteins." The soft tissue sarcoma cancer protein may be a fragment, or alternatively, the full length protein to a fragment shown herein.

In one embodiment, screening for modulators of expression of specific genes is performed. Typically, the expression of only one or a few genes are evaluated. In another embodiment, screens are designed to first find compounds that bind to differentially expressed proteins. These compounds are then evaluated for the ability to modulate differentially expressed activity. Moreover, once initial candidate compounds are identified, variants can be further screened to better evaluate structure activity relationships.

In another embodiment, binding assays are done. In general, purified or isolated gene product is used; that is, the gene products of one or more differentially expressed nucleic acids are made. For example, antibodies are generated to the protein gene products, and standard immunoassays are run to determine the amount of

protein present. Alternatively, cells comprising the soft tissue sarcoma cancer proteins can be used in the assays.

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Thus, in one embodiment, the methods comprise combining a soft tissue sarcoma cancer protein and a candidate compound, and determining the binding of the compound to the soft tissue sarcoma cancer protein. Other embodiments utilize the human soft tissue sarcoma cancer protein, although other mammalian proteins may also be used, e.g., for the development of animal models of human disease. In some embodiments, as outlined herein, variant or derivative soft tissue sarcoma cancer proteins may be used.

Generally, in one embodiment of the methods herein, the soft tissue sarcoma cancer protein or the candidate agent is non-diffusibly bound to an insoluble support, preferably having isolated sample receiving areas (e.g., a microtiter plate, an array, etc.). The insoluble supports may be made of a composition to which the compositions can be bound, is readily separated from soluble material, and is otherwise compatible with the overall method of screening. The surface of such supports may be solid or porous and of a convenient shape. Examples of suitable insoluble supports include microtiter plates, arrays, membranes and beads. These are typically made of glass, plastic (e.g., polystyrene), polysaccharides, nylon, or nitrocellulose, TEFLON® (synthetic resinous flurorine-containing polymers), etc. Microtiter plates and arrays are especially convenient because a large number of assays can be carried out simultaneously, using small amounts of reagents and samples. The particular manner of binding of the composition is typically compatible with the reagents and overall methods of the invention, maintains the activity of the composition, and is nondiffusable. Other methods of binding include the use of antibodies (which do not sterically block either the ligand binding site or activation sequence when the protein is bound to the support), direct binding to "sticky" or ionic supports, chemical crosslinking, the synthesis of the protein or agent on the surface, etc. Following binding of the protein or agent, excess unbound material is removed by washing. The sample receiving areas may then be blocked through incubation with bovine serum albumin (BSA), casein, or other innocuous protein or other moiety.

In one embodiment, the soft tissue sarcoma cancer protein is bound to the support, and a test compound is added to the assay. Alternatively, the candidate agent is bound to the support and the cancer protein is added. Novel binding agents include

specific antibodies, non-natural binding agents identified in screens of chemical libraries, peptide analogs, etc. Of particular interest are screening assays for agents that have a low toxicity for human cells. A wide variety of assays may be used for this purpose, including labeled in vitro protein-protein binding assays, electrophoretic mobility shift assays, immunoassays for protein binding, functional assays (phosphorylation assays, etc.), and the like.

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The determination of the binding of the test modulating compound to the cancer protein may be done in many ways. In one embodiment, the compound is labeled, and binding determined directly, e.g., by attaching all or a portion of the cancer protein to a solid support, adding a labeled candidate agent (e.g., a fluorescent label), washing off excess reagent, and determining whether the label is present on the solid support. Various blocking and washing steps may be utilized as appropriate.

In some embodiments, only one of the components is labeled, e.g., the proteins (or proteinaceous candidate compounds) can be labeled. Alternatively, more than one component can be labeled with different labels, e.g., ¹²⁵I for the proteins and a fluorophor for the compound. Proximity reagents, e.g., quenching or energy transfer reagents are also useful.

In one embodiment, the binding of the test compound is determined by competitive binding assay. The competitor may be a binding moiety known to bind to the target molecule (e.g., a soft tissue sarcoma cancer protein), such as an antibody, peptide, binding partner, ligand, etc. Under certain circumstances, there may be competitive binding between the compound and the binding moiety, with the binding moiety displacing the compound. In one embodiment, the test compound is labeled. Either the compound, or the competitor, or both, is added first to the protein for a time sufficient to allow binding, if present. Incubations may be performed at a temperature which facilitates optimal activity, typically between about 4-40° C. Incubation periods are typically optimized, e.g., to facilitate rapid high throughput screening. Typically between about 0.1-1 hour will be sufficient. Excess reagent is generally removed or washed away. The second component is then added, and the presence or absence of the labeled component is followed, to indicate binding.

In one embodiment, the competitor is added first, followed by a test compound. Displacement of the competitor is an indication that the test compound is binding to the cancer protein and thus is capable of binding to, and potentially

modulating, the activity of the cancer protein. In this embodiment, either component can be labeled. Thus, e.g., if the competitor is labeled, the presence of label in the wash solution indicates displacement by the agent. Alternatively, if the test compound is labeled, the presence of the label on the support indicates displacement.

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In an alternative embodiment, the test compound is added first, with incubation and washing, followed by the competitor. The absence of binding by the competitor may indicate that the test compound is bound to the cancer protein with a higher affinity. Thus, if the test compound is labeled, the presence of the label on the support, coupled with a lack of competitor binding, may indicate that the test compound is capable of binding to the cancer protein.

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In one embodiment, the methods comprise differential screening to identity agents that are capable of modulating the activity of the cancer proteins. In one embodiment, the methods comprise combining a cancer protein and a competitor in a first sample. A second sample comprises a test compound, a cancer protein, and a competitor. The binding of the competitor is determined for both samples, and a change, or difference in binding between the two samples indicates the presence of an agent capable of binding to the cancer protein and potentially modulating its activity. That is, if the binding of the competitor is different in the second sample relative to the first sample, the agent is capable of binding to the cancer protein.

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Alternatively, differential screening is used to identify drug candidates that bind to the native soft tissue sarcoma cancer protein, but cannot bind to modified soft tissue sarcoma cancer proteins. The structure of the cancer protein may be modeled, and used in rational drug design to synthesize agents that interact with that site. Drug candidates that affect the activity of the cancer protein are also identified by screening drugs for the ability to either enhance or reduce the activity of the protein.

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Positive controls and negative controls may be used in the assays. Preferably control and test samples are performed in at least triplicate to obtain statistically significant results. Incubation of all samples is for a time sufficient for the binding of the agent to the protein. Following incubation, samples are washed free of non-specifically bound material and the amount of bound, generally labeled agent determined. For example, where a radiolabel is employed, the samples may be counted in a scintillation counter to determine the amount of bound compound.

A variety of other reagents may be included in the screening assays. These include reagents like salts, neutral proteins, e.g., albumin, detergents, etc., which may

be used to facilitate optimal protein-protein binding and/or reduce non-specific or background interactions. Also reagents that otherwise improve the efficiency of the assay, such as protease inhibitors, nuclease inhibitors, anti-microbial agents, etc., may be used. The mixture of components may be added in an order that provides for the requisite binding.

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In one embodiment, the invention provides methods for screening for a compound capable of modulating the activity of a cancer protein. The methods comprise adding a test compound, as defined above, to a cell comprising cancer proteins. Useful cell types include almost any cell. The cells contain a recombinant nucleic acid that encodes a cancer protein. In one embodiment, a library of candidate agents are tested on a plurality of cells.

In one aspect, the assays are evaluated in the presence or absence or previous or subsequent exposure of physiological signals, e.g., hormones, antibodies, peptides, antigens, cytokines, growth factors, action potentials, pharmacological agents including chemotherapeutics, radiation, carcinogenics, or other cells (e.g., cell-cell contacts). In another example, the determinations are determined at different stages of the cell cycle process.

In this way, compounds that modulate soft tissue sarcoma cancer agents are identified. Compounds with pharmacological activity are able to enhance or interfere with the activity of the cancer protein. Once identified, similar structures are evaluated to identify critical structural feature of the compound.

In one embodiment, a method of inhibiting soft tissue sarcoma cancer cell division is provided. The method comprises administration of a soft tissue sarcoma cancer inhibitor. In another embodiment, a method of inhibiting soft tissue sarcoma cancer is provided. The method may comprise administration of a soft tissue sarcoma cancer inhibitor. In a further embodiment, methods of treating cells or individuals with soft tissue sarcoma cancer are provided, e.g., comprising administration of a soft tissue sarcoma cancer inhibitor.

In one embodiment, a soft tissue sarcoma cancer inhibitor is an antibody as discussed above. In another embodiment, the soft tissue sarcoma cancer inhibitor is an antisense molecule.

A variety of cell growth, proliferation, viability, and metastasis assays are known, as described below.

Soft agar growth or colony formation in suspension

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Normal cells require a solid substrate to attach and grow. When the cells are transformed, they lose this phenotype and grow detached from the substrate. For example, transformed cells can grow in stirred suspension culture or suspended in semi-solid media, such as semi-solid or soft agar. The transformed cells, when transfected with tumor suppressor genes, regenerate normal phenotype and require a solid substrate to attach and grow. Soft agar growth or colony formation in suspension assays can be used to identify modulators of soft tissue sarcoma cancer sequences, which when expressed in host cells, inhibit abnormal cellular proliferation and transformation. A therapeutic compound would reduce or eliminate the host cells' ability to grow in stirred suspension culture or suspended in semi-solid media, such as semi-solid or soft.

Techniques for soft agar growth or colony formation in suspension assays are described, e.g., in Freshney (1998) Culture of Animal Cells: A Manual of Basic Technique (3d ed.) Wiley-Liss; Freshney (2000) Culture of Animal Cells: A Manual of Basic Technique (4th ed.) Wiley-Liss; and Garkavtsev, et al. (1996) Nature Genet. 14:415-20.

Contact inhibition and density limitation of growth

Normal cells typically grow in a flat and organized pattern in a petri dish until they touch other cells. When the cells touch one another, they are contact inhibited and stop growing. When cells are transformed, however, the cells are not contact inhibited and continue to grow to high densities in disorganized foci. Thus, the transformed cells grow to a higher saturation density than normal cells. This can be detected morphologically by the formation of a disoriented monolayer of cells or rounded cells in foci within the regular pattern of normal surrounding cells.

Alternatively, labeling index with (³H)-thymidine at saturation density can be used to measure density limitation of growth. See Freshney (2000), supra. The transformed cells, when transfected with tumor suppressor genes, regenerate a normal phenotype and become contact inhibited and would grow to a lower density.

In this assay, labeling index with (³H)-thymidine at saturation density is a method of measuring density limitation of growth. Transformed host cells are transfected with a soft tissue sarcoma cancer-associated sequence and are grown for

24 hours at saturation density in non-limiting medium conditions. The percentage of cells labeling with (³H)-thymidine is determined autoradiographically. See, Freshney (1998), supra.

5 Growth factor or serum dependence

Transformed cells typically have a lower serum dependence than their normal counterparts. See, e.g., Temin (1966) J. Nat'l Cancer Inst. 37:167-175; Eagle, et al. (1970) J. Exp. Med. 131:836-879; Freshney, supra. This is in part due to release of various growth factors by the transformed cells. Growth factor or serum dependence of transformed host cells can be compared with that of control.

Tumor specific markers levels

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Tumor cells release an increased amount of certain factors (hereinafter "tumor specific markers") than their normal counterparts. For example, plasminogen

15 activator (PA) is released from human glioma at a higher level than from normal brain cells. See, e.g., Gullino "Angiogenesis, tumor vascularization, and potential interference with tumor growth" pp. 178-184 in Mihich (ed. 1985) Biological Responses in Cancer Plenum. Similarly, tumor angiogenesis factor (TAF) is released at a higher level in tumor cells than their normal counterparts. See, e.g., Folkman

20 (1992) "Angiogenesis and Cancer" Sem Cancer Biol. 3:89-96.

Various techniques which measure the release of these factors are described in Freshney (1994), supra. See also, Unkeless, et al. (1974) J. Biol. Chem. 249:4295-4305; Strickland and Beers (1976) J. Biol. Chem. 251:5694-5702; Whur, et al. (1980) Br. J. Cancer 42:305-312; Gullino, "Angiogenesis, tumor vascularization, and potential interference with tumor growth" pp. 178-184 in Mihich (ed. 1985) Biological Responses in Cancer Plenum; Freshney (1985) Anticancer Res. 5:111-130.

Invasiveness into Matrigel

The degree of invasiveness into Matrigel or some other extracellular matrix constituent can be used as an assay to identify compounds that modulate soft tissue sarcoma cancer-associated sequences. Tumor cells exhibit a good correlation between malignancy and invasiveness of cells into Matrigel or some other extracellular matrix constituent. In this assay, tumorigenic cells are typically used as

host cells. Expression of a tumor suppressor gene in these host cells would decrease invasiveness of the host cells.

Techniques described in Freshney (1994), supra, can be used. Briefly, the level of invasion of host cells can be measured by using filters coated with Matrigel or some other extracellular matrix constituent. Penetration into the gel, or through to the distal side of the filter, is rated as invasiveness, and rated histologically by number of cells and distance moved, or by prelabeling the cells with ¹²⁵I and counting the radioactivity on the distal side of the filter or bottom of the dish. See, e.g., Freshney (1984), supra.

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Tumor growth in vivo

Effects of soft tissue sarcoma cancer-associated sequences on cell growth can be tested in transgenic or immune-suppressed mice. Knock-out transgenic mice can be made, in which the cancer gene is disrupted or in which a cancer gene is inserted. Knock-out transgenic mice can be made by insertion of a marker gene or other heterologous gene into the endogenous cancer gene site in the mouse genome via homologous recombination. Such mice can also be made by substituting the endogenous cancer gene with a mutated version of the cancer gene, or by mutating the endogenous cancer gene, e.g., by exposure to carcinogens.

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A DNA construct is introduced into the nuclei of embryonic stem cells. Cells containing the newly engineered genetic lesion are injected into a host mouse embryo, which is re-implanted into a recipient female. Some of these embryos develop into chimeric mice that possess germ cells partially derived from the mutant cell line. Therefore, by breeding the chimeric mice it is possible to obtain a new line of mice containing the introduced genetic lesion. See, e.g., Capecchi, et al. (1989) Science 244:1288-1292. Chimeric targeted mice can be derived according to Hogan, et al. (1988) Manipulating the Mouse Embryo: A Laboratory Manual CSH Press; and Robertson (ed. 1987) Teratocarcinomas and Embryonic Stem Cells: A Practical Approach IRL Press, Washington, D.C.

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Alternatively, various immune-suppressed or immune-deficient host animals can be used. For example, genetically athymic "nude" mouse (see, e.g., Giovanella, et al. (1974) J. Natl. Cancer Inst. 52:921-930), a SCID mouse, a thymectomized mouse, or an irradiated mouse (see, e.g., Bradley, et al. (1978) Br. J. Cancer 38:263-272;

Selby, et al. (1980) Br. J. Cancer 41:52-61) can be used as a host. Transplantable tumor cells (typically about 10⁶ cells) injected into isogenic hosts will produce invasive tumors in a high proportions of cases, while normal cells of similar origin will not. In hosts which developed invasive tumors, cells expressing a soft tissue sarcoma cancer-associated sequences are injected subcutaneously. After a suitable length of time, preferably about 4-8 weeks, tumor growth is measured (e.g., by volume or by its two largest dimensions) and compared to the control. Tumors that have statistically significant reduction (using, e.g., Student's T test) are said to have inhibited growth.

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Polynucleotide modulators of soft tissue sarcoma cancer Antisense and RNAi Polynucleotides

In certain embodiments, the activity of a soft tissue sarcoma cancer-associated protein is downregulated, or entirely inhibited, by the use of antisense polynucleotide, e.g., a nucleic acid complementary to, and which can preferably hybridize specifically to, a coding mRNA nucleic acid sequence, e.g., a soft tissue sarcoma cancer protein mRNA, or a subsequence thereof. Binding of the antisense polynucleotide to the mRNA reduces the translation and/or stability of the mRNA.

In the context of this invention, antisense polynucleotides can comprise naturally-occurring nucleotides, or synthetic species formed from naturally-occurring subunits or their close homologs. Antisense polynucleotides may also have altered sugar moieties or inter-sugar linkages. Exemplary among these are the phosphorothioate and other sulfur containing species. Analogs are comprehended by this invention so long as they function effectively to hybridize with the soft tissue sarcoma cancer protein mRNA. See, e.g., Isis Pharmaceuticals, Carlsbad, CA; Sequitor, Inc., Natick, MA.

Such antisense polynucleotides can readily be synthesized using recombinant means, or can be synthesized in vitro. Equipment for such synthesis is sold by several vendors, including Applied Biosystems. The preparation of other oligonucleotides such as phosphorothicates and alkylated derivatives is also well known.

Antisense molecules as used herein include antisense or sense oligonucleotides. Sense oligonucleotides can, e.g., be employed to block transcription by binding to the anti-sense strand. The antisense and sense oligonucleotide comprise

a single-stranded nucleic acid sequence (either RNA or DNA) capable of binding to target mRNA (sense) or DNA (antisense) sequences for soft tissue sarcoma cancer molecules. An antisense molecule is for a soft tissue sarcoma cancer sequence in Tables 1A-11C, or for a ligand or activator thereof. Antisense or sense oligonucleotides, according to the present invention, comprise a fragment generally at least about 14 nucleotides, preferably from about 14 to 30 nucleotides. The ability to derive an antisense or a sense oligonucleotide, based upon a cDNA sequence encoding a given protein is described in, e.g., Stein and Cohen (1988) Cancer Res. 48:2659-2668; and van der Krol, et al. (1988) BioTechniques 6:958-976.

RNA interference is a mechanism to suppress gene expression in a sequence specific manner. See, e.g., Brumelkamp, et al. (2002) Sciencexpress (21March2002); Sharp (1999) Genes Dev. 13:139-141; and Cathew (2001) Curr. Op. Cell Biol. 13:244-248. In mammalian cells, short, e.g., 21 nt, double stranded small interfering RNAs (siRNA) have been shown to be effective at inducing an RNAi response. See, e.g., Elbashir, et al. (2001) Nature 411:494-498. The mechanism may be used to downregulate expression levels of identified genes, e.g., treatment of or validation of relevance to disease.

Ribozymes

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In addition to antisense polynucleotides, ribozymes can be used to target and inhibit transcription of soft tissue sarcoma cancer-associated nucleotide sequences. A ribozyme is an RNA molecule that catalytically cleaves other RNA molecules. Different kinds of ribozymes have been described, including group I ribozymes, hammerhead ribozymes, hairpin ribozymes, RNase P, and axhead ribozymes. See, e.g., Castanotto, et al. (1994) Adv. in Pharmacology 25:289-317.

General features of hairpin ribozymes are described, e.g., in Hampel, et al. (1990) Nuc. Acids Res. 18:299-304; European Patent Publication No. 0 360 257; US Patent No. 5,254,678. Methods of preparation are available. See, e.g., WO 94/26877; Yu, et al. (1993) Proc. Nat'l Acad. Sci. USA 90:6340-6344; Yamada, et al. (1994) Human Gene Therapy 1:39-45; Leavitt, et al. (1995) Proc. Nat'l Acad. Sci. USA 92:699-703; Leavitt, et al. (1994) Human Gene Therapy 5:1151-120; and Yamada, et al. (1994) Virology 205: 121-126.

Polynucleotide modulators of soft tissue sarcoma cancer may be introduced into a cell containing the target nucleotide sequence by formation of a conjugate with

a ligand binding molecule, as described in WO 91/04753. Suitable ligand binding molecules include, but are not limited to, cell surface receptors, growth factors, other cytokines, or other ligands that bind to cell surface receptors. Preferably, conjugation of the ligand binding molecule does not substantially interfere with the ability of the ligand binding molecule to bind to its corresponding molecule or receptor, or block entry of the sense or antisense oligonucleotide or its conjugated version into the cell. Alternatively, a polynucleotide modulator of soft tissue sarcoma cancer may be introduced into a cell containing the target nucleic acid sequence, e.g., by formation of an polynucleotide-lipid complex, as described in WO 90/10448. It is understood that the use of antisense molecules or knock out and knock in models may also be used in screening assays as discussed above, in addition to methods of treatment.

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Thus, in one embodiment, methods of modulating soft tissue sarcoma cancer in cells or organisms are provided. In one embodiment, the methods comprise administering to a cell an anti-soft tissue sarcoma cancer antibody that reduces or eliminates the biological activity of an endogenous soft tissue sarcoma cancer protein. Alternatively, the methods comprise administering to a cell or organism a recombinant nucleic acid encoding a soft tissue sarcoma cancer protein. This may be accomplished in many ways. In one embodiment, e.g., when the soft tissue sarcoma cancer sequence is down-regulated in soft tissue sarcoma cancer, such state may be reversed by increasing the amount of soft tissue sarcoma cancer gene product in the cell. This can be accomplished, e.g., by overexpressing the endogenous soft tissue sarcoma cancer gene or administering a gene encoding the soft tissue sarcoma cancer sequence, using known gene-therapy techniques. In one embodiment, the gene therapy techniques include the incorporation of the exogenous gene using enhanced homologous recombination (EHR), e.g., as described in PCT/US93/03868, hereby incorporated by reference in its entirety. Alternatively, e.g., when the soft tissue sarcoma cancer sequence is up-regulated in soft tissue sarcoma cancer, the activity of the endogenous soft tissue sarcoma cancer gene is decreased, e.g., by the administration of a soft tissue sarcoma cancer antisense nucleic acid or other inhibitor. such as RNAi.

In one embodiment, the soft tissue sarcoma cancer proteins of the present invention may be used to generate polyclonal and monoclonal antibodies to soft tissue sarcoma cancer proteins. Similarly, the soft tissue sarcoma cancer proteins can be coupled, using standard technology, to affinity chromatography columns. These

columns may then be used to purify cancer antibodies useful for production, diagnostic, or therapeutic purposes. In one embodiment, the antibodies are generated to epitopes unique to a cancer protein; that is, the antibodies show little or no cross-reactivity to other proteins. The soft tissue sarcoma cancer antibodies may be coupled to standard affinity chromatography columns and used to purify cancer proteins. The antibodies may also be used as blocking polypeptides, as outlined above, since they will specifically bind to the cancer protein.

Methods of identifying variant soft tissue sarcoma cancer-associated sequences

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Without being bound by theory, expression of various soft tissue sarcoma cancer sequences is correlated with cancer. Accordingly, disorders based on mutant or variant soft tissue sarcoma cancer genes may be determined. In one embodiment, the invention provides methods for identifying cells containing variant soft tissue sarcoma cancer genes, e.g., determining all or part of the sequence of at least one endogenous soft tissue sarcoma cancer gene in a cell. This may be accomplished using known sequencing techniques. In one embodiment, the invention provides methods of identifying the cancer genotype of an individual, e.g., determining all or part of the sequence of at least one soft tissue sarcoma cancer gene of the individual. This is generally done in at least one tissue of the individual, and may include the evaluation of a number of tissues or different samples of the same tissue. The method may include comparing the sequence of the sequenced soft tissue sarcoma cancer gene to a known soft tissue sarcoma cancer gene, e.g., a wild-type gene.

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The sequence of all or part of the soft tissue sarcoma cancer gene can then be compared to the sequence of a known soft tissue sarcoma cancer gene to determine if differences exist. This can be done using known homology programs, such as Bestfit, etc. In another embodiment, the presence of a difference in the sequence between the soft tissue sarcoma cancer gene of the patient and the known soft tissue sarcoma cancer gene correlates with a disease state or a propensity for a disease state, as outlined herein.

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In one embodiment, the soft tissue sarcoma cancer genes are used as probes to determine the number of copies of the soft tissue sarcoma cancer gene in the genome.

In another embodiment, the soft tissue sarcoma cancer genes are used as probes to determine the chromosomal localization of the soft tissue sarcoma cancer genes. Information such as chromosomal localization finds use in providing a

diagnosis or prognosis in particular when chromosomal abnormalities such as translocations, and the like are identified in the soft tissue sarcoma cancer gene locus.

Administration of pharmaceutical and vaccine compositions

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In one embodiment, a therapeutically effective dose of a soft tissue sarcoma cancer protein or modulator thereof, is administered to a patient. By "therapeutically effective dose" herein is meant a dose that produces effects for which it is administered. The exact dose will depend on the purpose of the treatment, and can be ascertained using known techniques. See, e.g., Ansel, et al. (1999) Pharmaceutical Dosage Forms and Drug Delivery Lippincott; Lieberman (1992) Pharmaceutical Dosage Forms (vols. 1-3) Dekker, ISBN 0824770846, 082476918X, 0824712692, 0824716981; Lloyd (1999) The Art, Science and Technology of Pharmaceutical Compounding Amer. Pharmaceut. Assn.; and Pickar (1998) Dosage Calculations Thomson. Adjustments for soft tissue sarcoma cancer degradation, systemic versus localized delivery, and rate of new protease synthesis, as well as the age, body weight, general health, sex, diet, time of administration, drug interaction, and the severity of the condition may be necessary. U.S. Patent Application N. 09/687,576, further discloses the use of compositions and methods of diagnosis and treatment in cancer.

A "patient" for the purposes of the present invention includes both humans and other animals, particularly mammals. Thus the methods are applicable to both human therapy and veterinary applications. In one embodiment the patient is a mammal, preferably a primate, including humans.

The administration of the soft tissue sarcoma cancer proteins and modulators thereof of the present invention can be done in a variety of ways as discussed above, including, but not limited to, orally, subcutaneously, intravenously, intranasally, transdermally topically, intraperitoneally, intramuscularly, intrapulmonary, vaginally, rectally, or intraocularly. In some instances, e.g., in the treatment of wounds and inflammation, the soft tissue sarcoma cancer proteins and modulators may be directly applied as a solution, spray, or ointment.

The pharmaceutical compositions of the present invention comprise a soft tissue sarcoma cancer protein in a form suitable for administration to a patient. In one embodiment, the pharmaceutical compositions are in a water soluble form, such as being present as pharmaceutically acceptable salts, which is meant to include both acid and base addition salts. "Pharmaceutically acceptable acid addition salt" refers to

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those salts that retain the biological effectiveness of the free bases and that are not biologically or otherwise undesirable, formed with inorganic acids such as hydrochloric acid, hydrobromic acid, sulfuric acid, nitric acid, phosphoric acid and the like, and organic acids such as acetic acid, propionic acid, glycolic acid, pyruvic acid, oxalic acid, maleic acid, malonic acid, succinic acid, fumaric acid, tartaric acid, citric acid, benzoic acid, cinnamic acid, mandelic acid, methanesulfonic acid, ethanesulfonic acid, p-toluenesulfonic acid, salicylic acid, and the like. "Pharmaceutically acceptable base addition salts" include those derived from inorganic bases such as sodium, potassium, lithium, ammonium, calcium, magnesium, iron, zinc, copper, manganese, aluminum salts, and the like. Particularly useful are the ammonium, potassium, sodium, calcium, and magnesium salts. Salts derived from pharmaceutically acceptable organic non-toxic bases include salts of primary, secondary, and tertiary amines, substituted amines including naturally occurring substituted amines, cyclic amines and basic ion exchange resins, such as isopropylamine, trimethylamine, diethylamine, triethylamine, tripropylamine, and ethanolamine.

The pharmaceutical compositions may also include one or more of the following: carrier proteins such as serum albumin; buffers; fillers such as microcrystalline cellulose, lactose, corn and other starches; binding agents; sweeteners and other flavoring agents; coloring agents; and polyethylene glycol.

The pharmaceutical compositions can be administered in a variety of unit dosage forms depending upon the method of administration. For example, unit dosage forms suitable for oral administration include, but are not limited to, powder, tablets, pills, capsules, and lozenges. It is recognized that soft tissue sarcoma cancer protein modulators (e.g., antibodies, antisense constructs, ribozymes, small organic molecules, etc.) when administered orally, should be protected from digestion. This is typically accomplished either by complexing the molecule(s) with a composition to render it resistant to acidic and enzymatic hydrolysis, or by packaging the molecule(s) in an appropriately resistant carrier, such as a liposome or a protection barrier. Means of protecting agents from digestion are available.

The compositions for administration will commonly comprise a soft tissue sarcoma cancer protein modulator dissolved in a pharmaceutically acceptable carrier, preferably an aqueous carrier. A variety of aqueous carriers can be used, e.g., buffered saline and the like. These solutions are sterile and generally free of

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undesirable matter. These compositions may be sterilized by conventional, well known sterilization techniques. The compositions may contain pharmaceutically acceptable auxiliary substances as required to approximate physiological conditions such as pH adjusting and buffering agents, toxicity adjusting agents and the like, e.g., sodium acetate, sodium chloride, potassium chloride, calcium chloride, sodium lactate, and the like. The concentration of active agent in these formulations can vary widely, and will be selected primarily based on fluid volumes, viscosities, body weight, and the like in accordance with the particular mode of administration selected and the patient's needs. See, e.g., (1980) Remington's Pharmaceutical Science (18th ed.) Mack; and Hardman and Limbird (eds. 2001) Goodman and Gilman: The Pharmacological Basis of Therapeutics (10th ed.) McGraw-Hill.

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Thus, a typical pharmaceutical composition for intravenous administration would be about 0.1 to 10 mg per patient per day. Dosages from about 0.1 to 100 mg per patient per day may be used, particularly when the drug is administered to a secluded site and not into the blood stream, such as into a body cavity or into a lumen of an organ. Substantially higher dosages are possible in topical administration. Actual methods for preparing parenterally administrable compositions will be known or apparent.

The compositions containing modulators of soft tissue sarcoma cancer proteins can be administered for therapeutic or prophylactic treatments. In therapeutic applications, compositions are administered to a patient suffering from a disease (e.g., a cancer) in an amount sufficient to cure or at least partially arrest the disease and its complications. An amount adequate to accomplish this is defined as a "therapeutically effective dose." Amounts effective for this use will depend upon the severity of the disease and the general state of the patient's health. Single or multiple administrations of the compositions may be administered depending on the dosage and frequency as required and tolerated by the patient. The composition should provide a sufficient quantity of the agents of this invention to effectively treat the patient. An amount of modulator that is capable of preventing or slowing the 30 development of soft tissue sarcoma cancer in a mammal is referred to as a "prophylactically effective dose." The particular dose required for a prophylactic treatment will depend upon the medical condition and history of the mammal, the particular stage or form of soft tissue sarcoma cancer disorder being prevented, as well as other factors such as age, weight, gender, administration route, efficiency, etc.

Such prophylactic treatments may be used, e.g., in a mammal who has previously had cancer to prevent a recurrence of the cancer, or in a mammal who is suspected of having a significant likelihood of developing cancer, based, at least in part, upon gene expression profiles. Vaccine strategies may be used, in either a DNA vaccine form, or protein vaccine.

It will be appreciated that the present soft tissue sarcoma cancer protein-modulating compounds can be administered alone or in combination with additional soft tissue sarcoma cancer modulating compounds or with other therapeutic agent, e.g., other anti-cancer agents or treatments.

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In numerous embodiments, one or more nucleic acids, e.g., polynucleotides comprising nucleic acid sequences set forth in Tables 1A-11C, such as RNAi, antisense polynucleotides, or ribozymes, will be introduced into cells, in vitro or in vivo. The present invention provides methods, reagents, vectors, and cells useful for expression of soft tissue sarcoma cancer-associated polypeptides and nucleic acids using in vitro (cell-free), ex vivo, or in vivo (cell or organism-based) recombinant expression systems.

The particular procedure used to introduce the nucleic acids into a host cell for expression of a protein or nucleic acid is application specific. Many procedures for introducing foreign nucleotide sequences into host cells may be used. These include the use of calcium phosphate transfection, spheroplasts, electroporation, liposomes, microinjection, plasma vectors, viral vectors, and other well known methods for introducing cloned genomic DNA, cDNA, synthetic DNA, or other foreign genetic material into a host cell. See, e.g., Berger and Kimmel (1987) Guide to Molecular Cloning Techniques from Methods in Enzymology (vol. 152) Academic Press; Ausubel, et al. (eds. 1999 and supplements) Current Protocols Lippincott; and Sambrook, et al. (2001) Molecular Cloning: A Laboratory Manual (3d ed., Vol. 1-3) CSH Press.

In one embodiment, soft tissue sarcoma cancer proteins and modulators are administered as therapeutic agents, and can be formulated as outlined above. Similarly, cancer genes (including both the full-length sequence, partial sequences, or regulatory sequences of the cancer coding regions) can be administered in a gene therapy application. These cancer genes can include inhibitory applications, e.g., inhibitory RNA, gene therapy (e.g., for incorporation into the genome), or antisense compositions.

Soft tissue sarcoma cancer polypeptides and polynucleotides can also be administered as vaccine compositions to stimulate HTL, CTL, and antibody responses. Such vaccine compositions can include, e.g., lipidated peptides (see, e.g., Vitiello, et al. (1995) J. Clin. Invest. 95:341-349), peptide compositions encapsulated in poly(DL-lactide-co-glycolide) ("PLG") microspheres (see, e.g., Eldridge, et al. 5 (1991) Molec. Immunol. 28:287-294; Alonso, et al. (1994) Vaccine 12:299-306; Jones, et al. (1995) Vaccine 13:675-681), peptide compositions contained in immune stimulating complexes (ISCOMS) (see, e.g., Takahashi, et al. (1990) Nature 344:873-875; Hu, et al. (1998) Clin. Exp. Immunol. 113:235-243), multiple antigen peptide systems (MAPs) (see, e.g., Tam (1988) Proc. Nat'l Acad. Sci. USA 85:5409-5413; 10 Tam (1996) J. Immunol. Meth. 196:17-32), peptides formulated as multivalent peptides; peptides for use in ballistic delivery systems, typically crystallized peptides, viral delivery vectors (Perkus, et al., p. 379, in Kaufmann (ed. 1996) Concepts in Vaccine Development de Gruyter; Chakrabarti, et al. (1986) Nature 320:535-537; Hu, et al. (1986) Nature 320:537-540; Kieny, et al. (1986) Bio/Technology 4:790-795; 15 Top, et al. (1971) J. Infect. Dis. 124:148-154; Chanda, et al. (1990) Virology 175:535-547), particles of viral or synthetic origin (see, e.g., Kofler, et al. (1996) J. Immunol. Meth. 192:25-35; Eldridge, et al. (1993) Sem. Hematol. 30:16-24; Falo, et al. (1995) Nature Med. 1:649-653), adjuvants (Warren, et al. (1986) Ann. Rev. Immunol. 4:369-388; Gupta, et al. (1993) Vaccine 11:293-306), liposomes (Reddy, et al. (1992) J. 20 Immunol. 148:1585-1589; Rock (1996) Immunol. Today 17:131-137), or naked or particle absorbed cDNA (Ulmer, et al. (1993) Science 259:1745-1749; Robinson, et al. (1993) Vaccine 11:957-960; Shiver, et al., p 423, in Kaufmann (ed. 1996) Concepts in Vaccine Development de Gruyter; Cease and Berzofsky (1994) Ann. Rev. Immunol. 12:923-989; and Eldridge, et al. (1993) Sem. Hematol. 30:16-24). 25 Toxin-targeted delivery technologies, also known as receptor mediated targeting, such as those of Avant Immunotherapeutics, Inc. (Needham, MA) may also be used.

Vaccine compositions often include adjuvants. Many adjuvants contain a substance designed to protect the antigen from rapid catabolism, such as aluminum hydroxide or mineral oil, and a stimulator of immune responses, such as lipid A, Bortadella pertussis or Mycobacterium tuberculosis derived proteins. Certain adjuvants are commercially available as, e.g., Freund's Incomplete Adjuvant and Complete Adjuvant (Difco Laboratories, Detroit, MI); Merck Adjuvant 65 (Merck and Company, Inc., Rahway, NJ); AS-2 (SmithKline Beecham, Philadelphia, PA);

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aluminum salts such as aluminum hydroxide gel (alum) or aluminum phosphate; salts of calcium, iron or zinc; an insoluble suspension of acylated tyrosine; acylated sugars; cationically or anionically derivatized polysaccharides; polyphosphazenes; biodegradable microspheres; monophosphoryl lipid A; and quil A. Cytokines, such as GM-CSF, interleukin-2, -7, -12, and other like growth factors, may also be used as adjuvants.

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Vaccines can be administered as nucleic acid compositions wherein DNA or RNA encoding one or more of the polypeptides, or a fragment thereof, is administered to a patient. See, e.g., Wolff, et al. (1990) Science 247:1465-1468 as well as US Patent Nos. 5,580,859; 5,589,466; 5,804,566; 5,739,118; 5,736,524; 5,679,647; WO 98/04720; and in more detail below. Examples of DNA-based delivery technologies include "naked DNA", facilitated (bupivicaine, polymers, peptide-mediated) delivery, cationic lipid complexes, and particle-mediated ("gene gun") or pressure-mediated delivery (see, e.g., US Patent No. 5,922,687).

For therapeutic or prophylactic immunization purposes, the peptides of the invention can be expressed by viral or bacterial vectors. Examples of expression vectors include attenuated viral hosts, such as vaccinia or fowlpox. This approach involves the use of vaccinia virus, e.g., as a vector to express nucleotide sequences that encode cancer polypeptides or polypeptide fragments. Upon introduction into a host, the recombinant vaccinia virus expresses the immunogenic peptide, and thereby elicits an immune response. Vaccinia vectors and methods useful in immunization protocols are described, e.g., in US Patent No. 4,722,848. Another vector is BCG (Bacille Calmette Guerin). See Stover, et al. (1991) Nature 351:456-460. A wide variety of other vectors are available for therapeutic administration or immunization, e.g., adeno and adeno-associated virus vectors, retroviral vectors, Salmonella typhi vectors, detoxified anthrax toxin vectors, and the like. See, e.g., Shata, et al. (2000) Mol. Med. Today 6:66-71; Shedlock, et al. (2000) J. Leukoc. Biol. 68:793-806; and Hipp, et al. (2000) In Vivo 14:571-85.

Methods for the use of genes as DNA vaccines are well known, and include placing a cancer gene or portion of a cancer gene under the control of a regulatable promoter or a tissue-specific promoter for expression in a soft tissue sarcoma cancer patient. The soft tissue sarcoma cancer gene used for DNA vaccines can encode full-length soft tissue sarcoma cancer proteins, but more preferably encodes portions of the cancer proteins including peptides derived from the cancer protein. In one

embodiment, a patient is immunized with a DNA vaccine comprising a plurality of nucleotide sequences derived from a soft tissue sarcoma cancer gene. For example, soft tissue sarcoma cancer-associated genes or sequence encoding subfragments of a soft tissue sarcoma cancer protein are introduced into expression vectors and tested for their immunogenicity in the context of Class I MHC and an ability to generate cytotoxic T cell responses. This procedure provides for production of cytotoxic T cell responses against cells which present antigen, including intracellular epitopes.

In one embodiment, the DNA vaccines include a gene encoding an adjuvant molecule with the DNA vaccine. Such adjuvant molecules include cytokines that increase the immunogenic response to the soft tissue sarcoma cancer polypeptide encoded by the DNA vaccine. Additional or alternative adjuvants are available.

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In another embodiment soft tissue sarcoma cancer genes find use in generating animal models of soft tissue sarcoma cancer. When the soft tissue sarcoma cancer gene identified is repressed or diminished in cancer tissue, gene therapy technology, e.g., wherein antisense RNA directed to the soft tissue sarcoma cancer gene will also diminish or repress expression of the gene. Animal models of soft tissue sarcoma cancer find use in screening for modulators of a soft tissue sarcoma cancer-associated sequence or modulators of soft tissue sarcoma cancer. Similarly, transgenic animal technology including gene knockout technology, e.g., as a result of homologous recombination with an appropriate gene targeting vector, will result in the absence or increased expression of the soft tissue sarcoma cancer protein. When desired, tissue-specific expression or knockout of the soft tissue sarcoma cancer protein may be necessary.

It is also possible that the soft tissue sarcoma cancer protein is overexpressed in soft tissue sarcoma cancer. As such, transgenic animals can be generated that overexpress the soft tissue sarcoma cancer protein. Depending on the desired expression level, promoters of various strengths can be employed to express the transgene. Also, the number of copies of the integrated transgene can be determined and compared for a determination of the expression level of the transgene. Animals generated by such methods find use as animal models of soft tissue sarcoma cancer and are additionally useful in screening for modulators to treat soft tissue sarcoma cancer or to evaluate a therapeutic entity.

Kits for Use in Diagnostic and/or Prognostic Applications

internet sites that provide such instructional materials.

For use in diagnostic, research, and therapeutic applications suggested above, kits are also provided by the invention. In the diagnostic and research applications such kits may include at least one of the following: assay reagents, buffers, soft tissue sarcoma cancer-specific nucleic acids or antibodies, hybridization probes and/or primers, antisense polynucleotides, ribozymes, dominant negative soft tissue sarcoma cancer polypeptides or polynucleotides, small molecules inhibitors of cancer-associated sequences, etc. A therapeutic product may include sterile saline or another pharmaceutically acceptable emulsion and suspension base.

In addition, the kits may include instructional materials containing directions (e.g., protocols) for the practice of the methods of this invention. While the instructional materials typically comprise written or printed materials they are not limited to such. A medium capable of storing such instructions and communicating them to an end user is contemplated by this invention. Such media include, but are not limited to electronic storage media (e.g., magnetic discs, tapes, cartridges, chips), optical media (e.g., CD ROM), and the like. Such media may include addresses to

The present invention also provides for kits for screening for modulators of soft tissue sarcoma cancer-associated sequences. Such kits can be prepared from readily available materials and reagents. For example, such kits can comprise one or more of the following materials: a soft tissue sarcoma cancer-associated polypeptide or polynucleotide, reaction tubes, and instructions for testing cancer-associated activity. Optionally, the kit contains biologically active soft tissue sarcoma cancer protein. A wide variety of kits and components can be prepared according to the present invention, depending upon the intended user of the kit and the particular needs of the user. Diagnosis would typically involve evaluation of a plurality of genes or products. The genes will be selected based on correlations with important parameters in disease which may be identified in historical or outcome data.

EXAMPLES

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Tissue Preparation, Labeling Chips, and Fingerprints
Purify total RNA from tissue using TRIZOL® Reagent

Estimate tissue weight. Homogenize tissue samples in 1ml of TRIZOL® (chemical reagents for use in isolating biological material from organic tissue) per 50mg of tissue using a Polytron 3100 homogenizer. The generator/probe used depends upon the tissue size. A generator that is too large for the amount of tissue to be homogenized will cause a loss of sample and lower RNA yield. Use the 20mm generator for tissue weighing more than 0.6g. If the working volume is greater than 2ml, then homogenize tissue in a 15ml polypropylene tube (Falcon 2059). Fill tube no greater than 10ml.

HOMOGENIZATION

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Before using generator, it should have been cleaned after last usage by running it through soapy H20 and rinsing thoroughly. Run through with EtOH to sterilize. Keep tissue frozen until ready. Add TRIZOL® directly to frozen tissue then homogenize.

Following homogenization, remove insoluble material from the homogenate by centrifugation at 7500 x g for 15 min. in a Sorvall superspeed or 12,000 x g for 10 min. in an Eppendorf centrifuge at 4°C. Transfer the cleared homogenate to a new tube(s). The samples may be frozen now at -60 to -70°C (and kept for at least one month) or you may continue with the purification. PHASE SEPARATION

Incubate the homogenized samples for 5 minutes at room temperature. Add 0.2ml of chloroform per 1ml of TRIZOL® reagent used in the original homogenization.

Cap tubes securely and shake tubes vigorously by hand (do not vortex) for 15 seconds.

Incubate samples at room temp. for 2-3 minutes. Centrifuge samples at 6500rpm in a Sorvall superspeed for 30 min. at 4°C. (You may spin at up to 12,000 x g for 10 min. but you risk breaking your tubes in the centrifuge.)

30 RNA PRECIPITATION

Transfer the aqueous phase to a fresh tube. Save the organic phase if isolation of DNA or protein is desired. Add 0.5ml of isopropyl alcohol per 1ml of TRIZOL® reagent used in the original homogenization. Cap tubes securely and invert to mix.

Incubate samples at room temp. for 10 minutes. Centrifuge samples at 6500rpm in Sorvall for 20min. at 4°C.

RNA WASH

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Pour off the supernate. Wash pellet with cold 75% ethanol. Use 1ml of 75% ethanol per 1ml of TRIzol reagent used in the initial homogenization. Cap tubes securely and invert several times to loosen pellet. (Do not vortex). Centrifuge at <8000rpm (<7500 x g) for 5 minutes at 4°C.

Pour off the wash. Carefully transfer pellet to an eppendorf tube (let it slide down the tube into the new tube and use a pipet tip to help guide it in if necessary). Depending on the volumes you are working with, you can decide what size tube(s) you want to precipitate the RNA in. When I tried leaving the RNA in the large 15ml tube, it took so long to dry (i.e. it did not dry) that I eventually had to transfer it to a smaller tube. Let pellet dry in hood. Resuspend RNA in an appropriate volume of DEPC H₂0. Try for 2-5ug/ul. Take absorbance readings.

Purify poly A+ mRNA from total RNA or clean up total RNA with Qiagen's RNeasy kit

Purification of poly A⁺ mRNA from total RNA. Heat oligotex suspension to 37°C and mix immediately before adding to RNA. Incubate Elution Buffer at 70°C. Warm up 2 x Binding Buffer at 65°C if there is precipitate in the buffer. Mix total RNA with DEPC-treated water, 2 x Binding Buffer, and Oligotex according to Table 2 on page 16 of the Oligotex Handbook. Incubate for 3 minutes at 65°C. Incubate for 10 minutes at room temperature.

Centrifuge for 2 minutes at 14,000 to 18,000 g. If centrifuge has a "soft setting," then use it. Remove supernatant without disturbing Oligotex pellet. A little bit of solution can be left behind to reduce the loss of Oligotex. Save sup until certain that satisfactory binding and elution of poly A⁺ mRNA has occurred. Gently resuspend in Wash Buffer OW2 and pipet onto spin column. Centrifuge the spin column at full speed (soft setting if possible) for 1 minute.

Transfer spin column to a new collection tube and gently resuspend in Wash Buffer OW2 and centrifuge as describe herein.

Transfer spin column to a new tube and elute with 20 to 100 ul of preheated (70°C) Elution Buffer. Gently resuspend Oligotex resin by pipetting up and down. Centrifuge as above. Repeat elution with fresh elution buffer or use first eluate to keep the elution volume low.

Read absorbance, using diluted Elution Buffer as the blank.

Before proceeding with cDNA synthesis, the mRNA must be precipitated. Some component leftover or in the Elution Buffer from the Oligotex purification procedure will inhibit downstream enzymatic reactions of the mRNA.

5 Ethanol Precipitation

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Add 0.4 vol. of 7.5 M NH₄OAc + 2.5 vol. of cold 100% ethanol. Precipitate at -20°C 1 hour to overnight (or 20-30 min. at -70°C). Centrifuge at 14,000-16,000 x g for 30 minutes at 4°C. Wash pellet with 0.5ml of 80%ethanol (-20°C) then centrifuge at 14,000-16,000 x g for 5 minutes at room temperature. Repeat 80% ethanol wash.

Dry the last bit of ethanol from the pellet in the hood. (Do not speed vacuum dry). Suspend pellet in DEPC H_20 at lug/ul concentration.

Clean up total RNA using Qiagen's RNeasy kit

Add no more than 100ug to an RNeasy column. Adjust sample to a volume of 100ul with RNase-free water. Add 350ul Buffer RLT then 250ul ethanol (100%) to the sample. Mix by pipetting (do not centrifuge) then apply sample to an RNeasy mini spin column. Centrifuge for 15 sec at >10,000rpm. If concerned about yield, re-apply flowthrough to column and centrifuge again.

Transfer column to a new 2-ml collection tube. Add 500ul Buffer RPE and centrifuge for 15 sec at >10,000rpm. Discard flowthrough. Add 500ul Buffer RPE and centrifuge for 15 sec at >10,000rpm. Discard flowthrough then centrifuge for 2 min at maximum speed to dry column membrane. Transfer column to a new 1.5-ml collection tube and apply 30-50ul of RNase-free water directly onto column membrane. Centrifuge 1 min at >10,000 rpm. Repeat elution.

Take absorbance reading. If necessary, ethanol precipitate with ammonium acetate and 2.5X volume 100% ethanol.

Make cDNA using Gibco's "SuperScript Choice System for cDNA Synthesis" kit First Strand cDNA Synthesis

Use 5ug of total RNA or 1ug of polyA+ mRNA as starting material. For total RNA, use 2ul of SuperScript RT. For polyA+ mRNA, use 1ul of SuperScript RT. Final volume of first strand synthesis mix is 20ul. RNA must be in a volume no greater than 10ul. Incubate RNA with 1ul of 100pmol T7-T24 oligo for 10 min at 70C. On ice, add 7 ul of: 4ul 5X 1st Strand Buffer, 2ul of 0.1M DTT, and 1 ul of 10mM dNTP mix. Incubate at 37C for 2 min then add SuperScript RT Incubate at 37C for 1 hour.

Second Strand Synthesis

Place 1st strand reactions on ice.

Add: 91ul DEPC H20

30ul 5X 2nd Strand Buffer

5 3ul 10mM dNTP mix

1ul 10U/ul E.coli DNA Ligase

4ul 10U/ul E.coli DNA Polymerase

1ul 2U/ul RNase H

Make the above into a mix if there are more than 2 samples. Mix and incubate 2 hours at 16C.

Add 2ul T4 DNA Polymerase. Incubate 5 min at 16C. Add 10ul of 0.5M EDTA

Clean up cDNA

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Phenol:Chloroform:Isoamyl Alcohol (25:24:1) purification using Phase-Lock gel (PLG) tubes.

Centrifuge PLG tubes for 30 sec at maximum speed. Transfer cDNA mix to PLG tube. Add equal volume of phenol:chloroform:isoamyl alcohol and shake vigorously (do not vortex). Centrifuge 5 minutes at maximum speed. Transfer top aqueous solution to a new tube. Ethanol precipitate: add 7.5X 5M NH4Oac and 2.5X volume of 100% ethanol. Centrifuge immediately at room temp. for 20 min, maximum speed. Remove sup then wash pellet 2X with cold 80% ethanol. Remove as much ethanol wash as possible then let pellet air dry. Resuspend pellet in 3ul RNase-free water.

25 In vitro Transcription (IVT) and labeling with biotin

Pipet 1.5ul of cDNA into a thin-wall PCR tube.

Make NTP labeling mix:

Combine at room temperature:2ul T7 10xATP (75mM) (Ambion)

2ul T7 10xGTP (75mM) (Ambion)

1.5ul T7 10xCTP (75mM) (Ambion)

1.5ul T7 10xUTP (75mM) (Ambion)

3.75ul 10mM Bio-11-UTP (Boehringer-

Mannheim/Roche or Enzo)

3.75ul 10mM Bio-16-CTP (Enzo)

2ul 10x T7 transcription buffer (Ambion)

2ul 10x T7 enzyme mix (Ambion)

Final volume of total reaction is 20ul. Incubate 6 hours at 37C in a PCR machine.

RNeasy clean-up of IVT product

Follow previous instructions for RNeasy columns or refer to Qiagen's RNeasy protocol handbook.

cRNA will most likely need to be ethanol precipitated. Resuspend in a volume compatible with the fragmentation step.

Fragmentation

15 ug of labeled RNA is usually fragmented. Try to minimize the fragmentation reaction volume; a 10 ul volume is recommended but 20 ul is all right. Do not go higher than 20 ul because the magnesium in the fragmentation buffer contributes to precipitation in the hybridization buffer.

Fragment RNA by incubation at 94 C for 35 minutes in 1 x Fragmentation buffer.

5 x Fragmentation buffer:

200 mM Tris-acetate, pH 8.1

500 mM KOAc

150 mM MgOAc

20

15

5

The labeled RNA transcript can be analyzed before and after fragmentation. Samples can be heated to 65C for 15 minutes and electrophoresed on 1% agarose/TBE gels to get an approximate idea of the transcript size range

Hybridization

25 200 ul (10ug cRNA) of a hybridization mix is put on the chip. If multiple hybridizations are to be done (such as cycling through a 5 chip set), then it is recommended that an initial hybridization mix of 300 ul or more be made.

Hybrization Mix: fragment labeled RNA (50ng/ul final conc.)

50 pM 948-b control oligo

30

1.5 pM BioB

5 pM BioC

25 pM BioD

100 pM CRE

0.1mg/ml herring sperm DNA

0.5mg/ml acetylated BSA to 300 ul with 1xMES hyb. buffer

The instruction manuals for the products used herein are incorporated herein in their entirety.

5 Labeling Protocol

Hybridization reaction:

Start with non-biotinylated IVT (purified by RNeasy columns)

(see example 1 for steps from tissue to IVT)

IVT antisense RNA; 4 µg:

μl

10 Random Hexamers (1 μg/μl):

4 µl

H₂O:

 μ l

14 µl

- Incubate 70°C, 10 min. Put on ice.
- 15 Reverse transcription:

5X First Strand (BRL) buffer: 6 μl

0.1 M DTT:

 $3 \mu l$

50X dNTP mix:

 $0.6 \mu l$

H20:

 $2.4 \mu l$

20 Cy3 or Cy5 dUTP (1mM):

3 µl

SS RT II (BRL):

 $1 \mu l$

16 µl

- Add to hybridization reaction.
- 25 Incubate 30 min., 42°C.
 - Add 1 µl SSII and let go for another hour.

Put on ice.

- 50X dNTP mix (25mM of cold dATP, dCTP, and dGTP, 10mM of dTTP: 25 μl each of 100mM dATP, dCTP, and dGTP; 10 μl of 100mM dTTP to 15 μl H2O. dNTPs
- 30 from Pharmacia)

RNA degradation:

86 μl H₂O

- Add 1.5 µl 1M NaOH/2mM EDTA, incubate at 65°C, 10 min.

10 μl 10N

NaOH

4 μl 50mM

EDTA

U-Con 30

500 µl TE/sample spin at 7000g for 10 min, save flow through for purification

- 5 Qiagen purification:
 - -suspend u-con recovered material in 500µl buffer PB
 - -proceed w/ normal Qiagen protocol

DNAse digest:

- Add 1 μl of 1/100 dil of DNAse/30μl Rx and incubate at 37°C for 15 min.
- 10 -5 min 95°C to denature enzyme

Sample preparation:

- Add:
- Cot-1 DNA: 10 μl

50X dNTPs: 1 μl

15 <u>20X SSC: 2.3 μl</u>

Na pyro phosphate: 7.5 μl

10mg/ml Herring sperm DNA 1ul of 1/10 dilution

21.8 final vol.

- Dry down in speed vac.
- 20 Resuspend in 15 μ l H₂0.
 - Add 0.38 µl 10% SDS.
 - Heat 95°C, 2 min.
 - Slow cool at room temp. for 20 min.

Put on slide and hybridize overnight at 64°C.

25 Washing after the hybridization:

3X SSC/0.03% SDS:

2 min. 37.5 mls 20X SSC+0.75mls 10% SDS in 250mls

 H_2O

1X SSC: 5 min.

12.5 mls 20X SSC in 250mls H₂O

0.2X SSC: 5 min.

2.5 mls 20X SSC in 250mls H₂O

30 Dry slides in centrifuge, 1000 RPM, 1min.

Scan at appropriate PMT's and channels.

Example 2: Gene Chip Analysis

Molecular profiles of various normal and soft tissue sarcoma cancer tissues were determined and analyzed using gene chips. RNA was isolated and gene chip analysis was performed as described above (Glynne, et al. (2000) Nature 403:672-676; Zhao, et al. (2000) Genes Dev. 14:981-993). The results are shown in the tables and figures that follow. These soft tissue sarcoma (STSD) associated sequences are identified in the tables by Genbank Accession numbers and gene titles. As indicated, some of the Accession numbers include expression sequence tags (ESTs). Thus, in one embodiment herein, genes within an expression profile, also termed expression profile genes, include ESTs and are not necessarily full length.

5

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TABLE 1A

5							· · · · · · · · · · · · · · · · · · ·			
•	Pkey:		Unique Pos probosot id							
	Gene na		Unique Bos probeset identifier number Unigene gene title							
			Promplay Agencains must a control of the control of							
	Accession:		Exemplar Accession number, Genbank accession number							
10	UniGene	3:	Unigene number							
10	RATIO:		95th percentile of chondrosarcomas AIs divided by the 50th percentile							
			or normal tissue Als, where the 10th percentile of normal tissue Als							
			was subtracted from both the numerator and denominator							
	SEQ ID	#:	Nucleic acid and protein sequences provided on CD for search purposes							
4 ~							2			
15	_									
	Pkey Gene Nam			Accession	UniGene	RATIO	SEQ ID#			
	424687	matrix meta	illoprotelnase 9 (gelatinase	J05070	Hs.151738	48.5	1986 1987 6289			
	417153	collagen, ty	pe II, alpha 1 (primary ost	X57010	Hs.81343		1084 1085 5625			
	422867	cartilage oli	gomeric matrix protein (ps	L32137	Hs.1584	29.0	1751 1752 6122			
20	428305	cartilage lin	king protein 1	AA446628		22.1	2426 6607			
	422871	collagen, ty	pe XI, alpha 2		Hs.121509		1753 1754 6123			
	424800	MyoD famil			Hs.153203		2002 2003 6300			
	413778		it polypeptide 2, regulatory	AA090235	Hs.75535	176	740 5356			
	441134		noic acid-binding protein	W29092	Hs.346950					
25 431553		cartilage lin	king protein 1	X78075	Hs.2799		3500 7475			
	417866	collage in	pe XI, alpha 1		Hs.82772	16.7	2792 6874			
	425154		pe IX, alpha 1				1162 5685			
	428748	Ksp37 prote			1 Hs.154850		2055 2056 6339			
	417070	titin	3111		Hs.98785		2468 6638			
30				Z19077	Hs.172004		1070 5614			
50	425545	NIM COSSA	ens, clone MGC:12401, mRNA, ∞	N98529	Hs.158295		2114 6379			
	403088	NIVI_UU3318	9*:Homo sapiens titin (TTN), mR			13.7	4707			
	428087	troponin C2			Hs.182421		2396 6582			
	440274	scrapie resp	oonsive protein 1	R24595	Hs.7122	13.2	3464 7443			
25	404977		growth factor 2 (somatomed			13.1	4766			
35	412519		, skeletal, slow	AA196241	Hs.73980	12.7	598 5244			
	407245	titin		X90568	Hs.172004	12.7	132 133 4881			
	427474	aggrecan 1	(chondroitin sulfate proteog	U13192	Hs.2159	12.6	2334 6532			
	435013		2:Homo sapiens NADH:ubiquinone	H91923	Hs.110024		3096 7115			
	452838	preferential	y expressed antigen in mel	U65011	Hs.30743		4357 4358 8188			
40	410621	titin	• •	AA194329			481 5149			
	422887	ESTs		Al751848			1755 6124			
	432239	matrix meta	lloproteinase 13 (collagenas	X81334	Hs.2936	12.0	2856 2857 6921			
	427335	G antigen 7		AA448542			2317 6520			
	432481	intron of collagen, type XI, alpha 1		AW451645			2876 6938			
45	432268		idenosine 5'-phosphosulfate s	BE311856						
	405704		*:Homo sapiens collagen, type	DE3 1 1030	115.214230	11.4	2861 6925			
	448204	ESTs	in torrio adpiono domagori, type	Al475124	Un 170561		4794			
	456115	titin		F01082	Hs.172004	11,4	3988 7887 4545 8333			
	440042	ESTs			DS. 17.2004	10.0	4515 8320			
50	427747		nine klnase 12	A1073387			3448 7430			
50	429329			AW411425			2365 6557			
	408349	homeo box	ns pannexin 3 (PANX3)	AA456140		10.4	2547 6699			
	416373			BE546947		10.2	213 4949			
	446619	constant ab	dy similar to S12658 cysteine	AA195845			996 5559			
55	443802	MAAAAAA -	osphoprotein 1 (osteopontin,	AU076643		9.9	3861 7782			
		KIAA1291 p		AW504924	Hs.9805	9.9	3647 7609			
	437330 428698	Homo sapie	ns mRNA; cDNA DKFZp761J1112 (9.9	3253 7250			
		KIAA1866 p		AA852773			2463 6635			
	409200	KIAA0076 g		AL042914		9.8	325 5037			
60	416491		hormone receptor 1		Hs.1019	9.8	1005 1006 5567			
60	406707		vy polypeptide 2, skeletal m		Hs.931	9.4	61 62 4829			
	424408		pe V, alpha 1	Al754813		9.4	1943 6260			
	413011	biglycan		AW068115		9.4	669 5302			
	414152	thrombospo	ndin 4	NM_003248	Hs.75774	9.1	782 783 5391			
65	426752	titin		X69490	Hs.172004	9.1	2266 2267 6482			
	426300	delta-like ho	molog (Drosophila)	U15979	Hs.169228	9.1	2196 2197 6437			
	426370	sortilin 1			Hs.281706		2215 6449			
	421552	secreted friz	zled-related protein 4	AF026692			1559 1560 5982			
	444381	hypothetical	protein BC014245	BE387335			3697 7652			
	417308	KIAA0101 g			Hs.81892		1094 5634			
70	452242	gycosyltrans			Hs.159993		4305 8145			
	406704	myosin, heavy polypeptide 7, cardiac mu		M21665 Hs.929 8.6			55 56 4826			
	417930	Homo saple	ns mRNA for KIAA1870 protein,		Hs.334604		1169 5691			
	432874	melanoma ir	hibitory activity		Hs.279651		2913 6968			
	433513	ESTs	• • •	AI566356			2985 7024			
75	409858		repeat containing 5	NM_006586		Hs.56828	8.2 391 392 5084			
	443426		20 open reading frame 1	AF098158			3621 3622 7586			
			port results ments 1	WI 090 190	いう。サンとか	8.2	JUL 1 JULE 1300			

	450005	TOT March similar to CEDD UNIMANICON	AACOCOED 11- 200404 9 4	4424 0000
	453665	ESTs, Wealdy similar to SFRB_HUMAN SPLI	AA626250 Hs.326184 8.1 AL050341 Hs.37165 8.1	4434 8253 146 147 4892
	407619	collagen, type IX, alpha 2	AW291587 Hs.82733 8.0	1161 5684
	417849 421967	nidogen 2 Interleukin 17B	AA476704 Hs.110040 8.0	1621 6027
5	412129	troponin T3, skeletal, fast	M21984 Hs.73454 8.0	571 572 5222
,	429921	collagen, type XI, alpha 1	AA526911 Hs.82772 7.9	2620 6749
	419875	proenkephalin	AA853410 Hs.93557 7.9	1391 5859
	419741	ubiquitin carrier protein E2-C	NM_007019 Hs.93002 7.9	1379 1380 5850
	429166	KIAA1270 protein	AB033096 Hs.197668 7.8	2522 2523 6679
10	431103	pleiotrophin (heparin binding growth fa	M57399 Hs.44 7.8	2748 2749 6840
10	408482	adenosine A2b receptor	NM_000676 Hs.45743 7.7	226 227 4959
	406964	FGENES predicted novel secreted protein	M21305 7.7	87 88 4847
	434449	hypothetical protein FLJ22041 similar t	AW953484 Hs.3849 7.7	3057 7083
	450778	solute carrier family 29 (nucleoside tr	U81375 Hs.25450 7.6	4191 4192 8055
15	422640	troponin C, slow	M37984 Hs.118845 7.6	1718 1719 6099
10	409327	collagen, type IX, alpha 3	L41162 Hs.53563 7.6	341 342 5047
	416658	fibrillin 2 (congenital contractural ar	U03272 Hs.79432 7.5	1020 1021 5577
	412978	homeo box C6	Al431708 Hs.820 7.5	665 5298
	409169	(clone PWHLC2-24) myosin light chain 2	F00991 Hs.50889 7.5	316 5029
20	449378	ESTs	AW664026 Hs.59892 7.5	4085 7967
	418883	acid phosphatase 5, tartrate resistant	BE387036 Hs.1211 7.5	1281 5774
	432538	male-enhanced antigen	BE258332 Hs.278362 7.4	2884 6945
	453060	hypothetical protein MGC15754	AW294092 Hs.21594 7.3	4386 8213
	420462	chondromodulin I precursor	AF050147 Hs.97932 7.3	1454 1455 5908
25	403071	NM_003319*:Homo sapiens titin (TTN), mR	7.3	4702
	426991	Homo saplens cDNA FLJ10674 fis, clone N	AK001536 Hs.214410 7.3	2294 6502
	417435	carbonic anhydrase III, muscle specific	NM_005181 Hs.82129 7.2	1121 1122 5655
	438913	ESTs	Al380429 Hs.172445 7.2	3364 7347
	453935	ESTs	Al633770 Hs.42572 7.2	4470 8281
30	422684	H2A histone family, member Z	BE561617 Hs.119192 7.2	1726 6105
	444784	ectonucleotide pyrophosphatase/phosphod	D12485 Hs.11951 7.2	3724 3725 7673
	444232	hypothetical protein DKFZp761H221	W56010 Hs.347297 7.1	3687 7644
	425071	delodinase, lodothyronine, type II	NM_013989 Hs.154424 7.1	2043 2044 6330
	422633	enolase 3, (beta, muscle)	X56832 Hs.118804 7.0	1716 1717 6098
35	453271	ESTs	AA903424 Hs.6786 7.0	4409 8232
	452402	peroxisome proliferative activated rece	Al138530 Hs.22216 7.0	4327 8162
•	421579	stem cell growth factor, lymphocyte sec	NM_002975 Hs.105927 7.0	1567 1568 5987
	425397	topoisomerase (DNA) Il alpha (170kD)	J04088 Hs.156346 7.0	2099 2100 6369
40	449969	Homo sapiens cDNA FLJ14337 fis, clone P	AW295142 Hs.180187 6.9	4123 8001
40	419926	DKFZP586D2223 protein	AW900992 Hs.93796 6.9	1396 5863
	432596	matrilin 3	AJ224741 Hs.278461 6.9	2889 2890 6950
	419452	PTK7 protein tyrosine kinase 7	U33635 Hs.90572 6.9	1340 1341 5821 4029 7921
	448721	ESTs	A1632123 Hs.371431 6.9	
45	437352	hypothetical protein DKFZp434P0531	AL353957 Hs.284181 6.8 AF090114 Hs.48433 6.8	3255 3256 7252 266 267 4992
43	408831	endocrine regulator	NM_000088 Hs.172928 6.7	2288 2289 6498
	426935	collagen, type I, alpha 1 Homo sapiens, clone IMAGE:4053965, mRNA	BE410573 Hs.283636 6.7	3090 7110
	434906		6.7	4798
	405946 450701	Target Exon hypothetical protein XP_098151 (leucine	H39960 Hs.288467 6.7	4183 8048
50	403074	NM_003319*:Homo sapiens titin (TTN), mR	6.6	4703
50	411296	growth suppressor 1	BE207307 Hs.10114 6.6	524 5183
	452281	Homo sapiens cDNA FLJ11041 fis, clone P	T93500 Hs.28792 6.6	4309 8149
	421535	phosphoribosylformylglycinamidine synth	AB002359 Hs.105478 6.5	1557 1558 5981
	427585	collagen, type X, alpha 1 (Schmid metap	D31152 Hs.179729 6.5	2349 6543
55	428981	ESTs, Weakly similar to ALU2_HUMAN ALU	BE313077 Hs.93135 6.5	2497 6660
00	428342	Homo sapiens cDNA FLJ13458 fis, clone P	Al739168 Hs.349283 6.5	2432 6611
	436608	down syndrome critical region protein D	AA628980 Hs.192371 6.5	3205 7207
	444165	hypothetical protein FLJ11236	AL137443 Hs.10441 6.5	3682 7639
	419745	slug (chicken homolog), zinc finger pro	AF042001 Hs.93005 6.4	1381 1382 5851
60	438746	Human melanoma-associated antigen p97 (Al885815 Hs.184727 6.4	3353 7337
	449048	similar to S68401 (cattle) glucose indu	Z45051 Hs.22920 6.4	4061 7945
	441553	ESTs	AA281219 Hs.121296 6.4	3525 7498
	437696	hypothetical protein dJ37E16.5	Z83844 Hs.5790 6.4	3281 7274
	410929	ESTs	H47233 Hs.30643 6.4	504 5166
65	443105	chondroitin sulfate proteoglycan 4 (mel	X96753 Hs.9004 6.3	3600 3601 7568
	446051	ephrin-A3	BE048061 Hs.37054 6.3	3816 7744
	400440	nebulin	X83957 Hs.83870 6.3	24 25 4627
	429359	matrix metalloproteinase 14 (membrane-i	W00482 Hs.2399 6.3	2551 6702
70	433001	clone HQ0310 PRO0310p1	AF217513 Hs.279905 6.3	2923 2924 6977
70	415989	ESTs	AI267700 Hs.351201 6.3	962 5530
	452826	peroxisomal biogenesis factor 6	BE245286 Hs.301636 6.3	4353 8184 3047 3048 7075
	434352	small muscle protein, X-linked	AF129505 Hs.86492 6.3	3047 3048 7075 312 313 5027
	409142	SMC4 (structural maintenance of chromos	AL136877 Hs.50758 6.3 AL022327 Hs.74518 6.2	312 313 5027 631 632 5269
75	412709	KIAA0027 protein Adlican	AL022327 Hs.74518 6.2 AF245505 Hs.72157 6.2	553 554 5207
13	411789 453392	SRY (sex determining region Y)-box 11	U23752 Hs.32964 6.2	4416 4417 8239
	700002	City (SCA Gentlining region 1) SCA 11	020102 110.02307 0.2	

	440028	ESTs, Weakly similar to T17227 hypothet	AW473675		Hs.367649	6.2	3446	7428
	416768	regenerating Islet-derived 1 alpha (pan	AA363733 H	ls.1032	6.2	1030 558	3	
	422627	transforming growth factor, beta-induce	BE336857 H	ls.118787	6.2	1715 609	7	
	443610		AW248314		Hs.9622	6.2	3628	7591
5	421307	Homo sapiens mRNA; cDNA DKFZp434B0425 (BE539976 H	ts.103305	6.1	1528 596	3	
	426413		AA377823		6.1	2219 645	3	
	424086	lysyl oxidase	Al351010 H	ts.102267	6.1	1896 622	7	
	450087	MUM2 protein	BE293180 1	ls.24379	6.1	4133 800	18	
	421155	lysyl oxidase	H87879 1	Hs.102267	6.1	1512 595	i0	
10	407604	collagen, type VIII, alpha 2	AW191962 I			145 4891	}	
	437033	RNA polymerase I subunit	AW248364 I	Hs.5409	6.1	3231 723	30	
•	427427	lectin, superfamily member 1 (cartilage	AF077345 I	Hs.177936	6.0	2328 232	9 6528	
	420005	ESTs	AW271106	Hs.133294	6.0	1407 583	71	
	453331	ESTs		Hs.352537		4413 82		
15	423785	Homo sapiens WWp2-like mRNA complete cd	BE467186	Hs.333382	6.0	1849 619	95	
13	412719	ESTs	AW016610	Hs.816	6.0	633 527		
	425462	Homo sapiens cDNA: FLJ22382 fis, clone		Hs.46783	5.9	2106 63		
	437898	ESTs		Hs.43410	5.9	3293 72		
		collagen, type V, alpha 2	AU077196		5.9	1172 56		
20	417944	Homo sapiens mRNA full length insert cD		Hs.41271	5.9	3427 74		
20	439737 420162	cyclin-dependent kinase 4	BE378432		5.9	1422 58		
			BE280074		5.9	4112 79		
	449722	cyclin B1 RAB6 interacting, kinesin-like (rabkine	AA219691			573 522		
	412140			Hs.28625	5.8	1600 60		
25	421823	ESTS RNA hinding motif agatain 8B	AL047586		5.8	4214 80		
25	451149	RNA binding motif protein 8B	BE540274		5.8	3696 76		
	444371	forkhead box M1	U51166	Hs.173824		2305 230		
	427157	thymine-DNA glycosylase	NM_002593	113.77002-	7 5.8	2557 25		
	429415	procollagen C-endopeptidase enhancer	AF016028	He 18342	5.58	2793 27		
20	431556	sarcospan (Kras oncogene-associated gen	NM 005014			1402 14		
30	419987	osteomodulin	NM_006825			623 624		
	412646	transmembrane protein (63kD), endoplasm	AW411491			657 529		
	412939	eukaryotic translation elongation facto		Hs.13515		3607 75		
	443184	ESTs	Al638728 U59111	Hs.16999		2230 22		1
25	426462	dermatan sulphate proteoglycan 3	W35195	Hs.95659		2416 65		
35	428269	ESTs, Moderately similar to ZN91_HUMAN	AK000136			3691 36		,
	444301	asporin (LRR class 1)	AF086064	Uc 22760	5.7 6 5.7	3387 73		
	439253	ESTs	AA125985			386 508		
	409731	thymosin, beta, identified in neuroblas	X58968	Hs.11130	157	1641 60		
40	422087	matrix metalloproteinase 2 (gelatinase		Hs.76228		822 823		
40	414477	amplified in osteosarcoma	U41635 AW248508			422 51		
	410102	ESTs; homologue of PEM-3 [Ciona savigny	AA295547	∏5.2/3/2 ₩6.25254	1 J.1 0 57	156 49		
	407740	ESTs	H88409			4375 8		
	452973	ESTs		Hs.40527		1165 5		
	417900	CDC20 (cell division cycle 20, S. cerev	BE250127			789 53		
45	414219	ALL1-fused gene from chromosome 1q	W20010	Hs.75823		376 377		
	409686	Homo sapiens mRNA; cDNA DKFZp434L0827	(AK000002			2169 6		
	426067	ESTs	AW664691			1086 5		
	417160	proteolipid protein 1 (Pelizaeus-Merzba	N76497	Hs.35580 Hs.13634		1878 18		5
	423961	periostin (OSF-20s)	D13666 AW992405			2380 6		,
50	427871	Homo sapiens, clone IMAGE:3507281, mRNA				2745 6		
	431089	ESTs, Weakly similar to unknown protein	BE041395			465 51		
	410491	Homo sapiens clone 25218 mRNA sequence	AA465131			2936 29		7
	433075	sortiin 1	NM_00295			176 17		,
~ ~	407896	Zic family member 1 (odd-paired Drosoph	D76435	Hs.41154			184 665	n
55	428862	SRY (sex determining region Y)-box 9 (c	NM_00034			3653 7		u
	443883	serine (or cysteine) proteinase inhibit	AA114212 AW378065		5.5 5.5	4360 8		
	452862	ADAMTS2 (a disintegrin-like and metall		100001	5.5 5.5	4335 8		
	452471	gb:RC-BT029-090199-079 BT029 Homo saple	AI903332	Lla 4024		1777 6		
	423073	MAD (mothers against decapentaplegic, D	BE252922			397 50		
60	409893	minichromosome maintenance deficient (S	AW247090			4429 8		
	453597	myo-inositol 1-phosphate synthase A1	BE281130	□5.3011 □5.4002	14 E E	3400 7		
	439456	hypothetical protein FLJ20980	AI752409				363 254 575	i.A
•	418533	myosin-binding protein C, fast-type	NM_00453			3264 7		7
	437446	ESTs, Moderately similar to CA1C RAT CO		Hs.1013		1296 5		
65	419073	Homo sapiens cDNA FLJ12797 fis, clone N		0 Hs.1839		3377 7		
	439108	synaptogyrin 3		4 Hs.6467		3190 7		
	436476	bHLH protein DEC2		Hs.3382		777 53		
	414117	proteolipid protein 1 (Pelizaeus-Merzba	W88559	Hs.3558				
70	441362	RAD51 (S. cerevisiae) homolog (E ∞li R		Hs.2304		3512 1 1159 5		
70	417796	ESTs		Hs.3678		49 50		
	406687	matrix metalloproteinase 11 (stromelysi	M31126	Hs.3520			185 570	12
	418054	lysyl oxidase-like 2		18 Hs.8335			898 695	
	432691	mitogen-activated protein kinase 7	U29725	Hs.3080			6 5153	
~-	410687	lysyl oxidase-like 1	U24389	Hs.6543			472 828	32
75	453941	Bloom syndrome	U39817	Hs.3682		2904		
	432731	fibronectin 1	R31178	Hs.2878	£U J.#			

	400000					
	430209	collagen, type V, alpha 3		Hs.235368	5.3	2659 2660 6778
	409041	Hypothetical protein, XP_051860 (KIAA11	AB033025		5.3	299 300 5017
	408901	hypothetical protein FLJ10468	AK001330	Hs.48855	5.3	272 273 4997
_	411078	CocoaCrisp	A1222020	Hs.182364		512 5172
5	457211	ESTs, Weakly similar to S51797 vasodila	AW972565	Hs.32399	5.3	4543 8344
	426058	Nedd-4-like ubiquitin-protein ligase	U96114	Hs.333382		2166 2167 6414
	431247	matrilin 4			5.3	2768 2769 6855
	418140	microfibrillar-associated protein 2	BE613836		5.3	1196 5713
10	452214	hypothetical protein FLJ10567		Hs.380887		4300 4301 8141
10	422043	retinoic acid induced 1	AL133649	Hs.110953	5.3	1629 1630 6033
	452683	progesterone membrane binding protein	A1089575	Hs.374574	5.3	4341 8175
	423811	homeo box C4	AW299598	Hs.50895	5.3	1854 6198
	423225	Thy-1 cell surface antigen	AA852604	Hs.125359	5.2	1786 6148
	424308	minichromosome maintenance deficient (S	AW975531	Hs.154443	5.2	1932 6250
15	436907	ESTs	AA737171	Hs.131809	5.2	3226 7225
	430393	estrogen-responsive B box protein	BE185030	Hs.241305	5.2	2688 6798
	433612	Homo sapiens Ku70-binding protein (KUB3	AF078164	Hs.61188	5.2	2991 2992 7030
	441356	ESTs, Weakly similar to JC5024 UDP-gala	BE384361	Hs.182885	5.2	3511 7485
	447343	ESTs, Highly similar to S02392 alpha-2-		Hs.236894		3916 7828
20	445826	Homo sapiens mRNA; cDNA DKFZp586D0918 (5.2	3800 7730
	452873	hypothetical protein FLJ10385	AK001247		5.2	4362 4363 8192
	408202	DKFZP586L151 protein	AA227710		5.2	202 4942
	435256	cytokine-like protein C17	AF193766		5.2	3116 3117 7133
	412641	heat shock 90kD protein 1, beta	M16660	Hs.74335	5.2	620 621 5260
25	430890	glypican 1	X54232	Hs.2699	5.2	2735 2736 6831
	414358	ESTs	AA476456		5.2	807 5412
	442573	branched chain aminotransferase 1, cyto	H93366	Hs.7567	5.2	3570 7541
	412564	cardiac ankyrin repeat protein	X83703	Hs.355934		606 607 5251
	417791	ESTs	AW965339		5.1	1158 5681
30	422765	baculoviral IAP repeat-containing 5 (su	AW409701		5.1	1734 6110
-	416391	mesoderm specific transcript (mouse) ho	A1878927	Hs.79284	5.1	999 5562
	421295	DC2 protein		Hs.103180		
	445564	KIAA1034 protein	AB028957		5.1	1524 5960
	417675	similar to murine leucine-rich repeat p		Hs.3781	5.1	3784 3785 7718
35	447149	TAR (HIV) RNA-binding protein 2				1144 5670
JJ	435284	Homo sapiens cDNA FLJ11492 fis, clone H	BE299857		5.1	3893 7809
	419488	nucleophosmin/nucleoplasmin 3	AA879470		5.1	3118 7134
	408829	heparan sulfate (glucosamine) 3-O-sulfo	AA316241		5.1	1342 5822
	409262	hypothetical protein FLJ20624	NM_006042		5.1	264 265 4991
40	446142	ESTs	AK000631		5.1	333 334 5042
70	418927	ESTs	A1754693	Hs.145968		3820 7748
	418283			Hs.190284		1284 5776
	428957	cathepsin K (pycnodysostosis)	S79895	Hs.83942	5.1	1210 1211 5724
		WNT1 inducible signaling pathway protei		I Hs.194679		2491 2492 6656
45	416322	pyrroline-5-carboxylate reductase 1	BE019494		5.1	989 5554
45	409361	sine oculis homeobox (Drosophila) homol		2 Hs.54416		344 345 5049
	414733	minichromosome maintenance deficient (S	BE514535		5.1	860 5454
	415885	KIAA0161 gene product	D79983	Hs.78894	5.1	953 954 5524
	444912	putative prostate cancer susceptibility	AW247380		5.0	3733 7679
·50	448425	ESTs	A1500359	Hs.371249		4004 7901
30	423292	nuclear RNA export factor 2	AK000423	Hs.306209		1791 1792 6152
	437430	gene predicted from cDNA with a complet	W44671	Hs.124	5.0	3261 7256
	451999	DEAD/H (Asp-Glu-Ala-Asp/His) box polype		Hs.380623		4268 8115
	418113	SRY (sex determining region Y)-box 4	AI272141		5.0	1194 5711
55	445160	sine oculis homeobox (Drosophila) homol	A1299144	Hs.101937		3748 7692
55	431411	hypothetical protein FLJ20343	A1929382	Hs.252692		2782 6866
	431347	insulin-like growth factor 2 (somatomed		Hs.251664		2774 6859
	452907	ESTs, Moderately similar to 154374 gene		Hs.31652		4368 8197
	440211	ESTs		Hs.125229		3463 7442
C 0	436895	carbonic anhydrase XII	AF037335		5.0	3224 3225 7224
60	414883	CDC28 protein kinase 1		Hs.348669	5.0	885 5471
	408135	methyltransferase-like 1	AA317248		5.0	194 4936
	414038	hypothetical protein FLJ22439	BE242722	Hs.180040	5.0	773 5382
	411102	triadin	AA401295	Hs.23926	5.0	515 5175
~~	433659	hypothetical protein FLJ10439	AK001301	Hs.3487	4.9	2998 2999 7035
65	433092	WAS protein family, member 2	AI936829	Hs.288908	4.9	2939 6989
	433430	ESTs		Hs.369982		2977 7018
	417605	regulator of G-protein signalling 3	AF006609	Hs.82294	4.9	1138 1139 5665
		Homo sapiens cDNA: FLJ22528 fis, clone		Hs.288850		595 5242
- -	437206	ESTs, Weakly similar to 138344 titin, c	AW975934			3245 7242
70		Homo sapiens cDNA FLJ11416 fis, clone H		Hs.287331		718 5337
	406706	myosin, heavy polypeptide 1, skeletal m		Hs.231581		59 60 4828
		KIAA1628 protein	AW954134		4.9	480 5148
		Homo sapiens cDNA FLJ11469 fis, done H		Hs.224398		3555 7527
	439717	ESTs, Moderately similar to ALU1_HUMAN			4.9	3423 7406
75	451766	ephrin-B3	NM_001406		4.9	4255 4256 8104
		KIAA1340 protein	AB037761		4.9	328 329 5039
			•		-	

	407690	hypothetical protein FLJ14281	R47799	Hs.266957	49	150 4895
	407025	Human unknown protein mRNA within the p	U58658	Hs.356460		
	414812					96 97 4852
	424162	monokine induced by gamma interferon	X72755	Hs.77367		874 875 5464
5		ESTs, Weakly similar to ALU2_HUMAN ALU		Hs.93135	4.9	1907 6235
,	446157	Homo sapiens cDNA: FLJ22562 fis, clone	BE270828	Hs.131740	4.9	3821 7749
	441944	Homo saplens clone 23767 and 23782 mRNA	AW855861		4.9	3541 7513
	411742	eukaryotic translation initiation facto	AW247593	Hs.71819	4.9	549 5204
	415702	gb:HSPD18414 HM3 Homo sapiens cDNA clon	F28877	Hs.73680	4.9	942 5515
	429500	hexabrachlon (tenascin C, cytotactin)	X78565	Hs.289114		2574 2575 6718
10	431183	KDEL (Lys-Asp-Glu-Leu) endoplasmic reti		5 Hs.250696		2756 2757 6845
	428409	ESTs	_			
_	451404	ESTs, Weakly similar to T17248 hypothet		Hs.98523	4.8	2438 6616
			AA460775		4.8	4229 8084
	453115	ESTs, Moderately similar to JC5238 gala	AW772041		4.8	4392 8218
1.5	448950	CGI-152 protein	AF288687	Hs.9275	4.8	4050 4051 7936
15	426509	pentaxin-related gene, rapidly induced	M31166	Hs.2050	4.8	2243 2244 6468
	451684	CDA14	AF216751	Hs.26813	4.8	4246 4247 8098
	425196	carbonic anhydrase II	AL037915	Hs.155097	4.8	2064 6345
	412755	ESTs, Weakly similar to P4HA_HUMAN PROL	BE144306	Hs.179891	4.8	637 5274
	453393	ESTs	AW956392	Hs.110376	4.8	4418 8240
20	428977	cyclin B2		Hs.194698		2496 6659
	419086	Kalimann syndrome 1 sequence		6 Hs.89591		
	447519	ESTs				1300 1301 5789
	414359		U46258	Hs.339665		3936 7844
	438093	cadherin 11, type 2, OB-cadherin (osteo	M62194	Hs.75929	4.8	808 5413
25		COP9 (constitutive photomorphogenic, Ar	BE206885		4.8	3303 7296
23	444670	hypothetical protein MGC5370	H58373	Hs.332938		3714 7666
	409103	XAGE-1 protein		Hs.112208		304 305 5021
	422809	hypothetical protein FLJ10549	AK001379	Hs.121028	4.7	1741 1742 6115
	419762	ESTs	A1608647	Hs.32374		1387 5855
	421057	Homo sapiens cDNA: FLJ22063 fis, clone	T58283	Hs.120638		1501 5940
30	419575	topoisomerase (DNA) III aipha	U43431	Hs.91175	4.7	1355 1356 5831
	408196	SRY (sex determining region Y)-box 22	AL034548	Hs.43627	4.7	199 200 4940
	402408	NM_030920*:Homo sapiens hypothetical pr	712001010	113.43021	4.7	
	421778	actin related protein 2/3 complex, subu	AA428000	Un 202072		4681
	411894			Hs.283072		1591 6003
35		GLI-Kruppel family member GLI3 (Greig c	M57609	Hs.72916	4.7	559 560 5212 ·
55	403285	Target Exon			4.7	4712
	435099	flap structure-specific endonuclease 1	AC004770		4.7	3104 3105 7123
	413658	A kinase (PRKA) anchor protein 10	AA055369	Hs.372446	4.7	734 5351
	454119	uncoupling protein 4	BE549773	Hs.40510	4.7	4492 8300
40	415667	developmentally regulated GTP-binding p	F11582	Hs.78582	4.7	935 5509
40	402672	Target Exon			4.7	4686
	446517	phosphatidylethanolamine N-methyltransf	BE382714	Hs.15192	4.7	3849 7772
	437623	chromosome condensation-related SMC-ass	D63880	Hs.5719		3275 3276 7269
	447377	transcription factor AP-2 alpha	X77343	Hs.334334	• .	3920 3921 7831
•	425848	valyl-tRNA synthetase 2		Hs.159637		2150 6402
45	448121	hypothetical protein DKFZp564F013	AL045714	Hs.128653		
	414961	myosin-binding protein H	U27266	Hs.927	4.6	3979 7881
	403903	C5001632*:gi 10645308 gb AAG21430.1 AC0	02/200	FIS.521		896 897 5479
	444719	ESTs, Weakly similar to GGE1_HUMAN GAGE	NI40447	11- 40070	4.6	4731
		lotant transforming arough fortage bet		Hs.43879	4.6	3717 7668
50 . ·	418036	latent transforming growth factor beta	Z37976	Hs.83337	4.6	1180 1181 5699
30.	406976	gb:Human alpha-1 collagen type II gene,	M60299		4.6	92 93 4850
	411852	ESTs, Weakly similar to T00329 hypothet	AA528140	Hs.107515	4.6	555 5208
	421506	thymidine kinase 1, soluble	BE302796	Hs,105097	4.6	1550 5976
	428344	Homo saplens cDNA FLJ12425 fis, clone M	AW449466	Hs.9299	4.6	2433 6612
	448734	Homo sapiens mRNA; cDNA DKFZp564H1916 (BE614070	Hs.326416	4.6	4031 7923
55	412014	ESTs, Weakly similar to A46010 X-linked	Al620650	Hs.43761	4.6	566 5218
	452436	ESTs, Moderately similar to A46010 X-li	BE077546	Hs.31447	4.6	4330 8164
	445373	ESTs, Weakly similar to DIA1_HUMAN DIAP		Hs.199316		3764 7703
	413004	interleukin enhancer binding factor 2,	T35901	Hs.75117		667 5300
	442426	hypothetical protein MGC5370	Al373062	Hs.332938		3562 7534
60	408920	fibronectin leucine rich transmembrane	AL120071			
• •	425259	Homo sapiens mRNA; cDNA DKFZp564K143 (f	AL 040200	Hs.48998		276 4999
	409096	sarcomeric muscle protein		Hs.145010		2075 6353
	428279	ESTs, Weakly similar to A47582 B-cell g		Hs.50550		302 5019
	449510			Hs.155766		2417 6599
65		ESTs	Al653154	Hs.328147		4092 7974
05	422112	Lsm1 protein		Hs.111783		1649 6046
	427217	ESTs		Hs.144341		2310 6514
	412537	nuclear transcription factor Y, alpha	AL031778	Hs.348999	4.5	601 5247
	430411	bone gamma-carboxyglutamate (gla) prote	X51699	Hs.2558	4.5	2691 2692 6800
70	407204	ESTs, Weakly similar to ALU1_HUMAN ALU	R41933	Hs.140237		121 4873
70	421114	ESTs, Weakly similar to I78885 serine/t	AW975051			1507 5946
	408197	ESTs, Weakly similar to A46010 X-linked	AA282262			201 4941
	436291	protein regulator of cytokinesis 1	BE568452	Hs.344037	4.5	3180 7185
	414416	hypothetical protein MGC2721	AW409985		4.5	813 5417
	407792	putative secreted ligand homologous to		Hs.39384	4.5 4.5	162 4906
75	452461	transcription factor				
_	436252	Homo sapiens cDNA FLJ11562 fis, done H		Hs.108106		4333 8167
		, total popular and the tribat is, will a	Al539519	Hs.142827	4.5	3179 7184

	422034	Ets2 repressor factor	AC006486 Hs.333069	4.5	1627 1628 6032
	432917	PRO0327 protein	NM_014125 Hs.241517		2915 2916 6970
	453299	ESTs	W44626 Hs.30627	4.5	4411 8234
_	424265	hairy/enhancer-of-split related with YR	AF173901 Hs.144287		1927 1928 6247
5	436481	HSPC150 protein similar to ubiquitin-co	AA379597 Hs.5199	4.5	3192 7197
	420197	ESTs, Weakly similar to A57291 cytokine	AW139647 Hs.88134	4.5	1429 5889
	420576	KIAA1858 protein	AA297634 Hs.54925	4.5	1463 5914
	409012	DKFZP4341216 protein	AL117435 Hs.49725	4.5	293 294 5013
	419552	gb:zd30a08.s1 Soares_fetal_heart_NbHH19	W63730 Hs.379098		1350 5828
10	407239	leukocyte immunoglobulin-like receptor,	AA076350 Hs.67846		129 4879
	424330	Homo saplens cDNA FLJ13596 fis, clone P	AW073953 Hs.34054	4.4	1936 6253
	417933	thymidylate synthetase	X02308 Hs.82962	4.4	1170 1171 5692
	447630	lymphoid enhancer-binding factor 1	Al660149 Hs.44865	4.4	3944 7851
	404567	NM_015902*:Homo sapiens progestin induc		4.4	4752
15	439053	chaperonin containing TCP1, subunit 2 (BE244588 Hs.6456	4.4	3374 7357
	438982	ESTs, Weakly similar to A47582 B-cell g	AW979101 Hs.291980		3372 7355
	423575	intron of periostin (OSF-2os)	C18863 Hs.163443		1820 6173
	456816	hypothetical protein FLJ10647	AK001509 Hs.144391		4531 4532 8334
	443778	Homo sapiens cDNA FLJ14207 fis, clone N	AW964139 Hs.9741	4.4	3642 7605
20	430681	ESTs	AW969675 Hs.291232		2719 6819
	434652	bladder cancer overexpressed protein	AF148713 Hs.125830		3066 3067 7092
	435937	ESTs	AA830893 Hs.119769		3164 7172
	447381	Homo sapiens cDNA FLJ14459 fis, clone H	Al377119 Hs.295362		3922 7832
	427647	Homo sapiens cDNA FLJ20653 fis, clone K	W19744 Hs.180059		2354 6548
25	424084	hypothetical protein FLJ23056	Al940675 Hs.20914		1895 6226
	425274	minichromosome maintenance deficient (m	BE281191 Hs.155462		2079 6356
	412935	tubulin-specific chaperone c	BE267045 Hs.75064		· 656 5291
	422599	non-metastatic cells 1, protein (NM23A)	BE387202 Hs.118638		1710 6092
	426363	transforming growth factor, beta 3	M58524 Hs.2025	4.4	2210 2211 6446
30	418156	nuclear receptor subfamily 1, group I,	****	4.4	1198 5715
	453880	ESTs, Weakly similar to I38022 hypothet	Al803166 Hs.135121		
	423739	ESTs		4.4	4458 8272
	439688	hypothetical protein FLJ12921	AW445181 Hs.209637		1842 6190
	449037	Homo sapiens mRNA; cDNA DKFZp586F071 (f	AI 050125 He 22007	4.4	3418 7401
35	418677	SRY (sex determining region Y)-box 5	S83308 Hs.87224		4060 7944
	433446	ESTs	AW469546 Hs.122116		1267 1268 5764
	420044	ESTs	AA253164 Hs.136294		2979 7020
	417124	ESTs			1410 5873
	421777	HSPC037 protein	BE562088 Hs.108196	4.3	1082 5623
40	430044	ESTs	AA464510 Hs.152812	4.3 4.2	1590 6002
_	429973	ESTs	Al423317 Hs.164680		2642 6765
	410366	hypothetical protein	Al267589 Hs.302689		2628 6756 457 5422
	425308	receptor tyrosine kinase-like orphan re	M97639 Hs.155585		457 5133
	442052	ESTs	AW450515 Hs.128381		2087 2088 6362
45	421848	collagen, type VI, alpha 1	X15880 Hs.108885		3546 7518
	424840	extra spindle poles, S. cerevisiae, hom			1602 1603 6013
	417788	nuclear transcription factor Y, beta			2011 2012 6306
	404561	trichorhinophalangeal syndrome I gene (4.3	1157 5680
	433447	neuronal pentraxin II		4.3 4.2	4751
50	428280	sarcospan (Kras oncogene-associated gen	H05541 Hs.183428	4.3 4.2	2980 2981 7021
	406850	collagen, type I, alpha 1			2418 6600
	407730	splicing factor, arginine/serine-rich 9			70 4837
	426487	variable charge, Y chromosome	Al457482 Hs.77608 AF000979 Hs.170076		155 4899
	410036	calsequestrin 2 (cardiac muscle)	R57171 Hs.57975		2240 2241 6466
55	422452	Homo sapiens mRNA; cDNA DKFZp566J1846 (AL4400EE Un 440000	4.3	412 5100
	421016	transcription factor 3 (E2A immunoglobu	AA504583 Hs.101047	4.3	1685 6073
	427458	ESTs, Weakly similar to LKHU proteoglyc	BE208364 Hs.29283		1497 5937
	442117	ESTs; hypothetical protein for IMAGE:44			2332 6530
	425516	ESTs	AW664964 Hs.128899	4.3	3551 7523
60	425398	hypothetical protein similar to tenasci	BE000707 Hs.353519		2110 6376
•	413053	ESTs, Moderately similar to KIAA1399 or	AL049689 Hs.156369		2101 2102 6370
	406837	Immunoglobulin kappa constant	AW963263 Hs.65377		674 5306
	423072	solute carrier family 12 (sodium/potass	R70292 Hs.156110		69 4836
	435124	ESTs	Al792946 Hs.123116		1776 6141
65	410169	hypothetical protein MGC3047			3107 7125
00	436878	ESTs			428 5112
	429638	kinectin 1 (kinesin receptor)			3223 7223
	425532	KIAA0446 gene product	AI916662 Hs.211577 4		2595 6731
	423332	NIMA (never in mitosis gene a)-related	AB007915 Hs.158286 4		2112 2113 6378
70	424503 451448	homolog of yeast MOG1	NM_002497 Hs.153704 4		2022 2023 6315
, 0	432101	EphA3	AW952599 Hs.13605 4		4231 8086
	432101	RNA binding motif protein 8A	AI918950 Hs.123642 4		2841 6909
	426817	Home canloes mPMA: and a new contraction	AF198620 Hs.10283 4	1.3	487 488 5154
	424560	Homo saplens mRNA; cDNA DKFZp564C0671 (protein predicted by clone 23733	AL122088 Hs.172627	1.3	2276 6488
75	417404	pleckstrin homology-like domain, family	AA158727 Hs.150555 4		1972 6279
, 5	454090	gb:MR0-CT0064-100899-002-h09 CT0064 Hom	NM_007350 Hs.82101 4		1110 1111 5648
	10 1000	55 to 0.10001 100000-002-1009 C10004 HOM	AVVU02402 4	1.2	4490 8298

	405452	Target Exon			4.2	4784
	406947	DNA-binding protein amplifying expressi			4.2	85 86 4846
	414312	ESTs	AA155694 Hs.			800 5407
5	435373 425514	ESTs	AW665538 Hs.			3121 7137
,	419341	integrin, alpha 10 2QQ ESTs, Weakly similar to ALU1_HUMAN ALU	AF112345 Hs. N71463 Hs.	118888		2108 2109 6375 1331 5814
	418407	nuclear transcription factor Y, beta	AL044818 Hs.		4.2 4.2	1237 5741
	435520	HNOEL-iso protein	AA297990 Hs.		4.2	3130 7146
10	409877	zinc finger protein 106	AW502498 Hs.		4.2	394 5086
10	435523	membrane-spanning 4-domains, subfamily			4.2	3131 7147
	449077 411666	ESTs	AW262836 Hs.			4063 7947
	410011	neurofilament 3 (150kD medium) PFTAIRE protein kinase 1	AF106564 Hs. AB020641 Hs.		4.2	546 5201
	435370	ESTs ESTS		225838	4.2 4.2	406 407 5096 3120 7136
15	421917	KIAA1020 protein	AB028943 Hs.			1612 1613 6021
	435818	ESTs	AA700553		4.2	3154 7163
	452110	Homo sapiens cDNA FLJ11309 fis, done P			4.2	4290 8132
	421458 410286	carbohydrate (keratan sulfate Gal-6) su DKFZP586N2124 protein	NM_003654 Hs.			1543 1544 5972
20	417358	KIAA0094 protein			4.2 4.2	448 5125 1102 1103 5641
	427239	ubiquitin carrier protein	BE270447 Hs.			2311 6515
	407140	ESTs, Weakly similar to I38022 hypothet	AA059106 Hs.:			115 4867
	406923	gb:G1 phase-specific gene {3' region} [S70622		4.2	81 82 4844
25	434629 446238	glioma-amplified sequence-41 SCO (cytochrome oxidase deficient, yeas	AA789081 Hs.		4.2	3064 7090
23	433047	methionine-tRNA synthetase		14511 279946	4.2	3829 7756 2931 6983
	445413	CGI-147 protein	AA151342 Hs.		112	·3765 7704
	425428	DKFZP586B0621 protein	AL110261 Hs.			2104 2105 6372
20	419911	BN51 (BHK21) temperature sensitivity co	L15301 Hs.	1276	4.2	1393 1394 5861
30	436856	ESTS		127310		3220 7221
	411529 417259	Homo saplens cDNA FLJ12927 fls, clone N chondroitin sulfate proteoglycan 2 (ver	AA430348' Hs.: AW903838 Hs.:		4.1 4.1	539 5196
	451489	amyloid beta (A4) precursor protein-bin	NM_005503 Hs.			1092 5632 4233 4234 8088
	450300	ESTs, Highly similar to ITH4_HUMAN INTE	AL041440 Hs.			4154 8024
35	425688	NGFI-A binding protein 2 (ERG1 binding		159223		2124 2125 6386
	424066	ESTs, Weakly similar to 138022 hypothet		112461		1891 6223
	440129 417115	ESTs, Weakly similar to S71886 Ste20-li small nuclear ribonucleoprotein polypep	AA865818 Hs.:			3456 7436
	453922	budding uninhibited by benzimidazoles 1	AW952792 Hs.: AF053306 Hs.:		4.1 4.1	1081 5622 4467 4468 8279
40	429005	lymphocyte antigen 95 (activating NK-re	AJ225109 Hs.			2499 2500 6662
	439755	B7 homolog 3	AW748482 Hs.		4.1	3430 7413
	434608	hypothetical protein FLJ22995	AA805443 Hs.			3063 7089
	424378 410813	neural cell adhesion molecule 1		167988		1940 6257
45	435538	gb:QV4-NN0039-040500-196-g04 NN0039 Hom low density lipoprotein receptor-relate	AW093909 AB011540 Hs.		4.1 4.1	496 5160 3132 3133 7148
	446444	ESTs				3838 7764
	437789	ESTs, Weakly similar to T17330 hypothet		127812		3287 7280
	412677	ESTs	AW029608 Hs.			629 5267
50	453833 414591	cytochrome P450, subfamily VIIIB (stero ESTs, Weakly similar to ALU8_HUMAN ALU		35718 248107 -		4446 4447 B264
50	421686	KIAA0584 protein	AB011156 Hs.			834 5435 1578 1579 5993
	422737	collagen, type III, alpha 1 (Ehlers-Dan		119571		1730 1731 6108
	429317	Homo sapiens cDNA: FLJ21243 fis, clone	AA831552 Hs.:			2544 6696
55	428134	ESTS	AA421773 Hs.			2401 6586
<i>JJ</i> .	419625 450835	nuclear factor of kappa light polypepti hypothetical protein FLJ10767	U91616 Hs.: BE262773 Hs.:	182885 ·		1362 1363 5836 4199 8060
	444901	ESTs	AA357543 Hs.:			3732 7678
	409585	mitochondrial ribosomal protein L2				363 5062
60	445730	ESTs		179082		3795 7726
60	413125 437786	glyoxalase I polymerase (DNA directed), eta	BE244589 Hs.7			682 5313
	448719	trinucleotide repeat containing 3	BE142681 Hs.: AA033627 Hs.:		4.0 4.0	3286 7279 4028 7920
	411704	hypothetical protein FLJ10074	Al499220 Hs.		4.0	547 5202
<i></i>	430287	ESTs, Weakly similar to LEU5_HUMAN LEUK	AW182459 Hs.	125759	4.0	2676 6790
65	426075	ESTs, Weakly similar to 2109260A B cell	AW513691 Hs.:			2170 6417
	411263 439092	kinesin-like 6 (mitotic centromere-asso gb:oc44f08.s1 NCI_CGAP_GCB1 Homo sapien	BE297802 Hs.6			523 5182
	443957	hypothetical protein FLJ23412	AA521049 Hs.3			3376 7359 3662 7622
		smoothened (Drosophila) homolog	AF120103 Hs.			2519 2520 6677
70		Homo sapiens clone HH409 unknown mRNA	Al147652 Hs.2	216381	4.0	3700 7655
	429290	neurofilament, heavy polypeptide (200kD	AF203032 Hs.			2538 2539 6692
	432335 409132	ESTs protein kinase, AMP-activated, beta 2 n	AA534039 Hs.3 AJ224538 Hs.5			2866 6929
		DKFZP564C186 protein	BE278111 Hs.			309 310 5025 1861 6203
75	452097	a disintegrin-like and metalloprotease	AB002364 Hs.2			4287 4288 8130
	407137	gb:ye53h05.s1 Soares fetal liver spleen	T97307	4	4.0	114 4866

PCT/US2003/038193

5	419690 429134 430130 428839 447924 436637 442328	Homo sapiens cDNA FLJ11223 fis, clone RESTs Homo sapiens mRNA; cDNA DKFZp761Gi Homo sapiens cDNA FLJ14814 fis, clone RESTs, Weakly similar to T23110 hypothet ESTs ESTs, Weakly similar to ALU4_HUMAN AL	AA446953 02121 AL137311 N AI767756 AI817226 AI783629	Hs.82302 Hs.313413	4.0 4.0 4.0 4.0	1370 5843 2514 6673 2650 2651 6772 2480 6648 3967 7869 3206 7208 3556 7528
10	TABLE 18: Pkey: CAT numbe Accession:	Unique Eos probeset identifier number r: Gene cluster number Genbank accession numbers				-
15	Pkey 426413 452471 454090	CAT Number Accession 372468_1 AW954494 AA377823 BG219617 3144769_1 AI903332 AI903301 AI903476 AI9 579894_1 AW062465 AW062462 BF333918	03379 Al903351 Al9	03262 Al9032	.58 I AW062468 AV	V062467
20	435818 410813 AW895888 439092	136148_1 AA700553 Al241378 Al247835 353225_1 AW895702 BG003544 BG003539 919640_1 AW978407 AA830149 M85983 AV		0 AW895909	AW805882 AW	305813 AW805808 BE176767 BI049482 BI064061
25	TABLE 1C: Pkey: Ref:	"The DNA	this column are Ger			*Dunham I. et al.* refers to the publication entitled
30	Strand: Nt_position:		ere predicted. exons.	e (1999) 402:4	189-495.	
35	Pkey 403088 404977 405704 403071 405946 403074	Ref Strand Nt_position 8954241 Plus 169894-1' 3738341 Minus 43081-43 4204244 Plus 138642-1' 8954241 Plus 136688-1' 6758796 Plus 28296-28 8954241 Plus 143375-1'	70193,170504-1708 229 39051 37096 830	06		
40	402408 403285 402672 403903 404567	9796239 Minus 110326-1	10491 168,74914-75174,75 596 02597	5295-75555		<u>-</u>
45	404561 405452	9795980 Minus 69039-70 7656638 Minus 93876-94	100			•
	TABLE 2A					
50	Accession: UniGene:	Unique Eos probeset identifier num Unigene gene title Exemplar Accession number, Genbank accession Unigene number	n number			
55	RATIO: SEQ ID #: Pkey	of normal tissue Als was subtracter nucleic acid and protein sequences provided on (Gene Name Access	I from both the nume CD for search purpos	erator and den	e 95th percentil ominator SEQ ID#	e of normal tissue Als, where the 10th percentile
60	419875 449048 441134 439979 424326	proenkephalin AA853 similar to S68401 (cattle) glucose indu cellular retinoic acid-binding protein hypothelical protein FLJ10430 AW600	410 Hs.93557 1 Hs.22920 92 Hs.346950	10.4 9.3 8.7 8.5 7.6	1391 5859 4061 7945 3500 7475 3442 7424 1934 1935 62	59
65	421920 423236 441636 420931 420376	gamma-aminobutyric acid (GABA) receptor BE55	1245 Hs.1438 07035 Hs.1 25750 A081846 Hs.7921 197 Hs.100431	6.0 5.9 5.5 5.1 5.0	1614 6022 1788 1789 61 3530 7502 1493 1494 59 1447 1448 59	50 35
70	426027 428405 450375 414085 413566	cholinergic receptor, nicotinic, alpha y0076 a disintegrin and metalloproteinase dom AA009 aldehyde dehydrogenase 1 family, member AA11 sprouty (Drosophila) homolog 4 AW604	647 Hs.352537 4016 Hs.75746 1451 Hs.381153	4.8 4.7 4.7 4.6 4.6	2161 2162 64 2436 2437 66 4159 8028 775 5384 730 5347	I1
75	453033 417153 440151 413199 409698	KIAA0281 gene product collagen, type II, alpha 1 (primary ost gb:ak38e07.s1 Soares_testis_NHT Homo sa AAE ELAV (embryonic lethal, abnormal vision short stature homeobox 2 A325 M6284 A5022	0 Hs.81343 68167 3 Hs.75236	4.6 4.6 4.6 4.4 4.3	4383 8210 1084 1085 56 3457 7437 687 688 5317 378 379 5074	25
80	426300 417866 451698 434747 430896	delta-like homolog (Drosophila) collagen, type XI, alpha 1 endothelin converting enzyme-like 1 ESTs spinal cord-derived growth factor-B W96i	9 Hs.169228 7903 Hs.82772 7 Hs.26880 085 Hs.372254 1905 Hs.112885	4.3 4.3 4.2 4.1 4.1	2196 2197 645 1162 5685 4249 4250 810 3073 7097 2739 6833	
85	424162 418007	ESTs, Weakly similar to ALUZ_HUMAN ALU AA: matrix metalloproteinase 1 (Interstitia M1350	336229 Hs.93135	4.0 3.9	1907 6235 1177 1178 569	77

	100-00					
	429500	hexabrachion (tenascin C, cytotactin)	X78565	Hs.289114	3.9	2574 2575 6718
	412755	ESTs, Weakly similar to P4HA_HUMAN				637 5274
	421458 426287	carbohydrate (keratan sulfate Gal-6) su calpain 6		Hs.1 04576	3.9	1543 1544 5972
5	425256	collapsin response mediator protein 1	AF029232 BE297611	Hs.169172 Hs.155392	3.8	2194 2195 6436
	453331	ESTs	Al240665	Hs.352537	3.8 3.8	2074 6352 4413 8236
	416658	fibrillin 2 (congenital contractural ar	U03272	Hs.79432	3.7	1020 1021 5577
	425071	deiodinase, iodothyronine, type II		Hs.1 54424	3.7	2043 2044 6330
10	418113	SRY (sex determining region Y)-box 4	Al272141	Hs.83484	3.7	1194 5711
10	415989	ESTs	Al267700	Hs.351201	3.7	962 5530
	421566	early growth response 2 (Krox-20 (Droso	NM_000399	Hs.1 395	3.6	1563 1564 5984
	426457	chimerin (chimaerin) 1	AW894667	Hs.380138	3.6	2229 6459
	448731	ESTS	AI522273	Hs.173179	3.6	4030 7922
15	411852 447033	ESTs, Weakly similar to T00329 hypothe		Hs.107515	3.6	555 5208
13	406687	Predicted gene: Eos cloned; secreted w/ matrix metalloproteinase 11 (stromelysi		Hs.157601	3.6	3885 7802
	454071	ESTs	M31126 Al041793	Hs.352054 Hs.42502	3.6	49 50 4823
	452944	ESTs	Al266750	Hs.135261	3.6 3.6	4487 8295 4371 8199
••	447584	ESTs, Weakly similar to A53531 oncofeta		Hs.263561	3.5	3940 7847
20	408938	ESTs	AA059013	Hs.22607	3.5	279 5002.
	446544	ESTs, Weakly similar to Unknown [H.sap		Hs.7047	3.5	3855 7776
	454755	gb:CM1-ST0283-071299-061-h03 ST028	3 Hom AW819	9204	3.5	4503 8309
	449595	ESTs	AW293799	Hs.255238	3.5	4098 7979
25	429139	ESTs	F09092	Hs.66087	3.4	2517 6675
23	433645 452888	ESTs, Moderately similar to ALU6_HUM/		Hs.190258	3.4	2995 7033
	439783	ephrin-B2 hypothetical protein FLJ14594	AW955454	Hs.30942	3.4	4366 8195
	420067	Homo sapiens mRNA; cDNA DKFZp564(Al125760 วววว (f T5243	Hs.24835	3.4	3431 7414
	414821	Fc fragment of IgG, high affinity la, r	M63835	1 Hs.94795 Hs.77424	3.4 3.4	1414 5876 876 877 5465
30	404145	ENSP00000229781*:CDNA FLJ12078 fis		110.7774	3.4 3.4	4738
	425262	GS3955 protein	D87119	Hs.155418	3.4	2076 2077 6354
	456967	T-box 2	AW004056	Hs.168357	3.4	4535 8337
	420173	ESTs	AA256151	Hs.22999	3.4	1426 5886
35	421785	Homo sapiens cDNA FLJ11946 fis, clone		Hs.323231	3.3	1593 6005
33	416539	epithelial membrane protein 1	Y07909	Hs.79368	3.3	1010 1011 5570
	429922	H1 histone family, member 0	Z97630	Hs.226117	3.3	2621 2622 6750
	429524 414467	KIAA1211 protein	AB033037	Hs.205293	3.3	2577 2578 6720
	453960	copine II ESTs	AW903820	Hs.85752	3.3	821 5424
40	417333	bromodomain and PHD finger containing,	N62791	Hs.231883	3.3	4475 8285
	428865	Bart-like homeobox 1	BE544095	Hs.173179 Hs.164960	3.3 3.3	1096 5636
	425065	Homo sapiens, clone IMAGE:3603836, m	RNA AA3719	115.104500 116 He 204151	3.3	2485 6651 2042 6329
	435793	KIAA1313 protein	AB037734	Hs.4993	3.2	3152 3153 7162
4	408762	ESTs .	BE395364	Hs.118032	3.2	255 4984
45	448719	trinucleotide repeat containing 3	AA033627	Hs.21858	3.2	4028 7920 ·
	452291	CDC7 (cell division cycle 7, S. cerevis	AF015592	Hs.28853	3.2	4310 4311 8150
	424498	hypothetical protein DKFZp761L0424	AB033043	Hs.149377	3.2	1963 1964 6274
	407785	ESTs, Weakly similar to A43932 mucin 2		Hs.98279	3.1	160 4904
50	408934 435370	ESTs ESTs	AI268324	Hs.146050	3.1	278 5001
50	431089	ESTs, Weakly similar to unknown protein	Al964074	Hs.225838	3.1	3120 7136
	426991	Homo saplens cDNA FLJ10674 fis, clone	N AKON1536	Hs.374629 Hs.214410	3.1	2745 6838
	414175	hypothetical protein DKFZp761D112	Al308876	Hs.103849	3.1 3.1	2294 6502 786 5394
	424287	hypothetical protein DKFZp434F2322	AL133105	Hs.144633	3.1	1929 1930 6248
55	429262	spinal cord-derived growth factor-B	AW503454	Hs.112885	3.1	2536 6690
	416932	ESTs	N20884	Hs.269039	3.1	1049 5598
	417689	KIAA0128 protein; septin 2	AA828347	Hs.90998	3.1	1148 5673
	408915	heptacellular carcinoma novel gene-3 pr	NM_016651	Hs.4 8950	3.1	274 275 4998
60	423401 400419	coagulation factor II (thrombin) recept	NM_001992	Hs.1 28087	3.0	1803 1804 6160
00	447471	Target sprouty (Drosophila) homolog 2	AF084545	11- 40070	3.0	22 23 4626
	438960	ESTs	AF039843 H26514	Hs.18676	3.0	3930 3931 7839
	446259	hypothetical protein FLJ13391	AA425204	Hs.167506 Hs.334721	3.0 3.0	3370 7353 3831 7758
	428305	cartilage linking protein 1	AA446628	Hs.2799	3.0	2426 6607
65	421268	ESTs	Al126821	Hs.193513	3.0	1522 5958
	429006	hypothetical protein FLJ13842	AA443143	Hs.50929	3.0	2501 6663
	432994	ESTs .	AA573452	Hs.150941	3.0	2922 6976
	443709	ESTs	Al082692	Hs.134662	3.0	3637 7600
70	421666	endothelin 3	AL035250	Hs.1408	3.0	1574 1575 5991
, 0	418054 413474	lysyl oxidase-like 2 Homo sapiens cDNA FLJ 14438 fis, clone	NM_002318		2.9	1184 1185 5702
	401973	NM_018896*:Homo sapiens calcium chan	n 100312	Hs.334485	2.9	726 5343
	449885	ESTs, Weakly similar to JC2025 hexokina		Hs.161610	2.9 2.9	4671 4119 7997
	451598	ESTs	N29102	Hs.79658	2.9	4241 8093
75	412453	ESTs	R20205	Hs.75236	2.9	589 5237
	449677	gb:zh85d01.s1 Soares_fetal_liver_spleen	AA002071		2.9	4105 7985
	414482	endothelin receptor type A	S57498	Hs.76252	2.9	824 825 5426
	423778	flavin containing monooxygenase 2	Y09267	Hs.132821	2.9	1846 1847 6193
80	400920	NM_025208*:Homo saplens splnal cord-di			2.9	4640
ov.	448672 457850	Homo serions slaba 1 0/0 collacon	A1955511	Hs.89582	2.9	4025 7917
	457869 451195		AU077186	Hs.108885	2.9	4561 8359
	451195 415773	ESTs, Moderately similar to A47582 B-ce		Hs.438	2.9	4218 4219 8077
	422674	ESTs, Weakly similar to JW0079 heteroge		Hs.324725	2.9	947 5519
85	405889	ENSP00000240003*:HYPOTHETICAL 37.	3 kDa	Hs.103512	2.9 2.9	1724 6103 4797
-	439130			Hs.345588	2.9	3378 7361
					-	• • • •

	429492	ESTs	W21183	Hs.13205	2.9	2572 6716
	422222	hypothetical protein DKFZp434A171	AI699372	Hs.374343	2.9	1661 6056
	417675	similar to murine leucine-rich repeat p	A1808607	Hs.3781	2.9	1144 5670
_	409728	ESTs	AW883968	Hs.321190	2.9	385 5079
5	416083	ESTs, Weakly similar to ALU1_HUMAN A	X78075	Hs.269122 Hs.2799	2.9 2.9	971 5539 2792 6874
	431553 450661	cartilage linking protein 1 ESTs	AW952160	Hs.270753	2.8	4178 8043
	421912	Homo sapiens clone 24775 mRNA sequel	nce AW02198	58 Hs.109438		1610 6019
_	429327	prostaglandin E receptor 4 (subtype EP4	AA283981	Hs.199248	2.8	2546 6698
10	445016	realin	U79716	Hs.12246	2.8	3738 3739 7684
	428981	ESTs, Weakly similar to ALU2_HUMAN A	LU BE31307	7 Hs.93135	2.8	2497 6660
	425525	ESTs	AA358883 Al524124	Hs.23871 Hs.270307	2.8 2.8	2111 6377 4006 7903
•	448493	ESTs — ESTs, Weakly similar to T46428 hypothet		Hs.21192	2.8	1317 5802
15	419221 428626	ESTs	T95297	Hs.17551	2.8	2457 6630
13	428392	secretory granule, neuroendocrine prote	H10233	Hs.2265	2.8	2434 6613
	408988	Homo sapiens clone TUA8 Cri-du-chat re	g AL119844 ·	Hs.49476	2.8	289 5009
	456364	Homo sapiens, clone IMAGE:3163559, m			2.8	4520 8324
20	434203	hypothetical protein PRO1855	BE262677	Hs.283558	2.8 2.8	3033 7066 677 5309
20	413064	gb:RC1-HT0268-280200-015-b09 HT026 bromodomain and PHD finger containing,	0 MM BE 130	Hs.173179	2.8	1980 6284
	424633 452866	Homo sapiens cDNA: FLJ21243 fis, clone	R26969	Hs.268016	2.8	4361 8191
	423308	Homo saplens mRNA for KIAA1755 prote	in, Al365680	Hs.114085	2.8	1793 6153
	411324	ab:OV1-LT0036-150200-070-c11 LT0036	3 Hom AW836	835	2.8	525 5184
25	437450	Homo sapiens mRNA; cDNA DKFZp7620	3123 (f AL390)154 Hs.26954	4 2.8	3265 7260
	408172	phosphoglycerate mutase 2 (muscle)	W02488	Hs.46039	2.8	196 4938 4210 4211 8070
	451090	hypothetical protein	AF175409 W81007	Hs.25924 Hs.323780	2.8 2.8	3412 7395
	439628 411035	ESTs gb;PM0-CT0263-201099-003-f06 CT026		AW854930	2.8	511 5171
30	430147	hairy/enhancer-of-split related with YR	R60704	Hs.234434	2.8	2652 6773
50	429484	sema domain, immunoglobulin domain (I		Hs.2414	2.7	2569 2570 6714
	453931	ESTs	AL121278	Hs.25144	2.7	4469 8280
	406387	Target Exon			2.7	4805
25	421509	ESTs	AA292223	Hs.137459	2.7	1553 5978 2551 6702
35	429359	matrix metalloproteinase 14 (membrane-	1 1400462	Hs.2399	2.7 2.7	4716
	403372 414959	sirtuin (silent mailing type information Homo sapiens cDNA FL)12284 fis, clone	M D59968	Hs.45184	2.7	895 5478
	400263	Eos Control	, 000000	Hs.75309	2.7	4613
	451669	Homo sapiens, clone IMAGE:3603836, r	nRNA AA349	726 Hs.29415	1 2.7	4243 B095
40	420028	carbohydrate (N-acetylglucosamine-6-0)	AB014680	Hs.8786	2.7	1408 1409 5872
	410910	gb:MR4-ST0125-021199-017-d08 ST01	25 Hom AW81	10204	2.7	503 5165
	413802	ESTs, Weakly similar to S65657 alpha-1		Hs.255938 Hs.24139	2.7 2.7	744 5359 1838 6187
	423680	 Homo sapiens cDNA: FLJ23137 fis, clor protocadherin 18 	A7A320829	Hs.97266	2.7	1772 6138
45	423044 429187	ESTs, Weakly similar to S65657 alpha-1		Hs.163872	27	2529 6683
-, -	434276	leucine zipper, putative tumor suppress	AF123659	Hs.93605	2.7	3039 3040 7070
	447749	ESTs	T53260	Hs.8297	2.7	3959 7862
	440168	ESTs	AA868507	Hs.126141	2.7	3458 7438
50	408643	hypothetical protein FLJ21610	F06427 AA262294	Hs.12727 Hs.180383	2.7 2.7	246 4976 2361 6554
50	427700	dual specificity phosphatase 6 trinucleotide repeat containing 3	BE386801	Hs.21858	2.7	3331 7320
	438549 417709	KIAA0247 gene product	D87434	Hs.82426	2.7	1149 1150 5674
	408431	Homo sapiens cDNA: FLJ22536 fis, clor		Hs.43266	2.7	220 4954
	440818	ESTs	Al147060	Hs.146726		3487 7463
55	414359	cadherin 11, type 2, OB-cadherin (osteo	M62194	Hs.75929	2.7	808 5413
	436936	ESTs	AL134451	Hs.197478	2.7 2.7	3227 7226 553 554 5207
	411789	Adlican ESTs	AF245505 AA447745			2530 6684
	429194 450141	ESTS	Z44619	Hs.13205	2.6	4135 8010
60	434553	hypothetical protein FLJ21687	AW514302			3060 7086
	445019	histone deacetylase 3	Al362520	Hs.302718		3810 7739
	445102	ESTs	AW204610		2.6	3743 7688
	432812	ESTs	Al935412	Hs.302718 Hs.21572	2.6 2.6	2910 6965 4015 4016 7910
65	448595	KIAA0644 gene product relinoic acid receptor, beta	AB014544	- Hs.171495		2131 2132 6390
05	425717 406964	FGENES predicted novel secreted prot			2.6	87 88 4847
	429709	dickkopf (Xenopus laevis) homolog 2	BE047680		2.6	2607 6739
	458422	DnaJ (Hsp40) homolog, subfamily C, m	emb Al34478	2 Hs.9683	2,6	4574 8371
70	402354	ENSP00000221785*:Hypothetical 117.	0 kDa		2.6	4680 4685
70	402636	Target Exon	R40018	Hs.56400	2.6 2.6	4685 903 5484
	415046 419550	ESTs KIAA0128 prolein; septin 2	D50918	Hs.90998	2.6	1348 1349 5827
	429973	ESTs	Al423317	Hs.164680		2628 6756
	453876	ESTs, Weakly similar to I38022 hypoth	et AW02174	8 Hs.110406		4457 8271
75	439070	ESTs	Al733278	Hs.7621	2.6	3375 7358
	409723	ESTs	AW88575			384 5078
	424153	MAGE-like 2	AA451737	' Hs.141498 88 Hs.1 53954		1904 6233 2033 2034 6323
	424962 418140	TRAM-like protein microfibrillar-associated protein 2	BE613836		2.5	1196 5713
80	404627	NM_001401*:Homo saplens endolhelia			2.5	4753
	446142	ESTs	Al754693		3 2.5	3820 7748
	445252	Homo sapiens clone 23927 mRNA seq				3752 7695
	422152	solute carrier family 30 (zinc transpor	AA909249 17G122147A1	3 Hs.112282		1653 6049 3493 7469
85	441005	Homo sapiens mRNA; cDNA DKFZp54	AW25019			3907 7822
O.J	447253 400352	ESTs taste receptor, type 2, member 7	AF227133		2.5	138 139 4622
	700002	mam topolinal share at the man		-		

	433292	gb:PM3-HT0344-281299-008-a12 HT0344	Hom RF1546	229 Hs 18236	625	2968 7009
	450842	ESTs	AA011358	Hs.103316	2.5	4200 8061
	424025	Homo saplens cDNA: FLJ23131 fis, clone	AI701852	Hs.301296	2.5	1887 6220
_	420842	hypothetical protein MGC10986	AI083668	Hs.50601	2,5	1485 5929
5	426933	ESTs	AA621076	Hs.179694	2.5	2287 6497
	440974	KIAA0700 protein	AW450345	Hs.13999	2.5	3492 7468
	400608	C10001899:gi]7508633[pir][T25392 hypoti	h		2.5	4633
	404234 405521	Target Exon			2.5	4741
10	446617	C8001409*:gl 7441226 pir]S31212 collag ESTs	N41529	Hs.176013	2.5 2.5	4786 3859 7780
10	436045	DKFZP564O0423 protein	AB037723	Hs.5028	25	3169 3170 7176
	404030	NM_015669*:Homo saplens protocadherii		10.0020	2.5	4735
	452734	Homo sapiens mRNA; cDNA DKFZp4340		616 Hs.3048		4349 8181
4 =	435056	glycoprotein M6B	AW023337	Hs.5422	2.5	3100 7119
15	403134	C2000555*:gi[6330407 db] BAA86514.1 (2.5	4709
	434891	ESTs	AA814309	Hs.123583	2.5	3089 7109
	417632	glycoprotein M6B	R20855	Hs.379090	2.5	1141 5667
	444035 433842	ESTs ESTs	AW073319 Al652156	Hs.135067 Hs.26346	2.5 2.5	3673 7632 3009 7044
20	412792	gb:lL2-HT0449-100100-033-A09 HT0449			2.5	642 5279
	401357	tumor protein D52-like 1			2.5	4650
	434067	Homo sapiens cDNA FLJ14218 fis, clone	N H18913	Hs.124023	2.5	3026 7059
	443996	retinal degeneration B beta	H17822	Hs.333212	2.5	3666 7625
25	409921	gb:EST00009 pGEM-T library Homo saple			2.5	398 5089
25	422982	ESTs, Weakly similar to A46010 X-linked		Hs.43143	2.5	1765 6132
	414402	gb:601172959F1 NIH_MGC_17 Homo sa ESTs		186 HS.16468 Hs.183176		812 5416
	428211 421483	hypothetical protein MGC11333	AA424211 NM_003388		2.5 2.5	2407 6591 1545 1546 5973
	455811	gb:MR0-HT0080-011099-002-b03 HT008			2.5	4508 8314
30	410534	gb:QV0-NN1071-280400-207-g07 NN107				471 5142
	410642	gb:CM0-UM0001-010300-258-h11 UM000			2.4	484 5152
	433430	ESTs	A1863735	Hs.369982	2.4	2977 7018
	419093	spinal cord-derived growth factor-B	Al804054	Hs.112885	2.4	1304 5792
-35	419073	Homo sapiens cDNA FLJ12797 fis, clone			2.4	1296 5786
.33	451820	ESTs	AW058357	Hs.199248	2.4	4260 8107
	428771 438944	KIAA1069 protein KIAA1444 protein	AB028992 AA302517	Hs.193143	2.4 2.4	. 2471 2472 6641 3368 7351
	401441	Target Exon	AN302011	Hs.92732	2.4	4652
	405523	C8001409*:gi 7441226 pir S31212 collag			2.4	4788
40	410781	ESTs	AJ375672	Hs.165028	2.4	495 5159
	453174	ESTs	Al633529	Hs.135238	2.4	4399 8224
	451507	ESTs, Weakly similar to T31611 hypothet		Hs.332563	2.4	4236 8090
	400829	C11000244:gi]11056030 ref NP_061738.			2.4	4639
45	408530	LUC7 (S. cerevisiae)-like	BE143941	Hs.16803	2.4	235 4966
43	438305 440209	gb:y179c09.s1 Soares infant brain 1NIB neurexin 3	H06377 H05049	Hs.247837	2.4 2.4	3315 7306
	438703	ESTs	Al803373	Hs.31599	2.4	3461 7440 3348 7333
	420547	gonadotropin-regulated testicular RNA h		Hs.98738	2.4	1460 1461 5912
	451752	KIAA1171 protein	AB032997	Hs.353087	2.4	4252 4253 8102
50	437249	hypothetical protein FLJ21347	AA432202	Hs.103147	2.4	3250 7247
•	422667	ESTs	H25642	Hs.132821	2.4	1723 6102
	420489	ESTs	AA815089	Hs.193513	2.4	1458 5910
	446947	polycythemia rubra vera 1; cell surface	AF146747	Hs.232165	2.4	3881 3882 7799
55	441544 409633	ESTs ESTs	AW300043	Hs.127137	2.4 2.4	3523 7496
33	404681	C9001188*:gi 12738842 ref NP_073725.1	AW449822	Hs.55200	2.4	371 5068 4756
	420888	dihydropyrimidinase-like 4	AB006713	Hs.100058	2.4	1486 1487 5930
	441689	ESTs	Al123705	Hs.289068	2.4	3533 7505
CO	414933	ESTs, Weakly similar to 138022 hypothet	D60141	Hs.270977	2.4	893 5476
60	406107	C11002500*:gi 3298456 dbj BAA31514.1			2.4	4801
	446509	protocadherin 20	AF169693	Hs.132892	2.4	3845 3846 7769
	423556	dynein, cytoplasmic, heavy polypeptide	R72694	Hs.356692	2.4	1816 6170
	450278 439873	ESTs ESTs	AW205234 BE159253	Hs.201587 Hs.300638	2.4 2.4	4151 8021 3436 7419
65	441389	endocytic receptor (macrophage mannos		Hs.7835	2.4	3514 3515 7488
	455215	ESTs	AW867003	Hs.278344	2.4	4506 8312
	415314	glycoprotein M6B	N88802	Hs.5422	2.4	921 5497
	450282	ESTs	AA007655	Hs.93523	2.4	4152 8022
70	444292	ESTs	Al139794	Hs.146569	2.4	3690 7646
70	410333	ras association (RalGDS/AF-6) domain co		Hs.62349	2.4	451 452 5128
	438662	cleavage and polyadenylation specific f	AA223599	Hs.6351	2.4	3345 7330
	401929 422578	C17001690:gi 6005701 ref NP_009099.1 caudal type homeo box transcription fac		Un 1545	2.4 2.4	4668 1707 1708 6090
	433600	ESTs	R42833	Hs.1545 Hs.22232	2.4	2990 7029
75 ⁻	424870	ESTs	T15545	Hs.244624	2.4	2014 6308
-	431961	Homo sapiens cDNA FLJ11300 fis, clone		Hs.272249	2.4	2836 6905
	447357	ESTs	Al375922	Hs.132821	2.4	3917 7829
	402687	Target Exon			2.4	4688
80	415892	ESTs, Moderately similar to JC5238 gala		Hs.125979	2.3	955 5525
80	443749	ESTs Moderatoly similar to KIAA1200 or	R38828	Hs.143463	23	3641 7604
	427669 450203	ESTs, Moderately similar to KIAA1200 pr L-kynurenine/alpha-aminoadipate aminoti	MW451832	Hs.255938	2.3	2358 6552
	400207	Eos Control	N 031334	Hs.301528 Hs.76847	2.3 2.3	4141 4142 8015 4599
-	429030	gb:lL2-UM0079-030300-048-F01 UM0079	9 Hom AW803		2.3 2.3	2503 6665
85	458956	gb:ht98f11.x1 NCI_CGAP_Lu24 Homo sa			2.3	4587 8383
	451962	ESTs	AW078832	Hs.226806	2.3	4266 8113

	434635	Homo sapiens cDNA FLJ11934 fis, clone	H H47794	Hs.261699	2.3	3065 7091
	450701	hypothetical protein XP_098151 (leucine	H39960	Hs.288467	23	4183 8048
	419087	hypothetical protein FLJ14594	Al671245	Hs.24835	2.3	1302 5790
_	410244	ESTs	N62178	Hs.48472	2.3	438 5118
5	441469	ESTs	AW451400	Hs.127019	2.3	3520 7493
	457455	gb:EST384956 MAGE resequences, MAG			2.3	4551 8350
	440516	cadherin 2, type 1, N-cadherin (neurona	S42303	Hs.161	23	3472 3473 7451
	457085	ESTS	AA412446	Hs.365809	2.3	4540 8341
10	417231 409348	ESTs	R40739	Hs.166351	2.3	1090 5630
10	402741	ESTs NM_002508:Homo sapiens nidogen (enar	A)401535	Hs.146090	2.3	343 5048
	414259	integrin, beta-like 1 (with EGF-like re		11- 204000	23	4689
	433235	contactin 3 (plasmacytoma associated)	W44633 AB040929	Hs.301296	2.3	792 5400
	425863	Human unidentified mRNA, partial sequer		Hs.35089 Hs.159901	2.3 2.3	2963 2964 7006
15	452036	sema domain, seven thrombospondin rep	es NW 00308	R He 27621	2.3	2152 6404
	426320	transforming growth factor, beta 2	W47595	Hs.169300	2.3	4273 4274 8119 2205 6442
	420058	Homo saplens cDNA FLJ10561 fis, clone			2.3	1411 5874
	423782	ESTs	AJ472209	Hs.323117	2.3	1848 6194
••	418678	cancer/testis antigen (NY-ESO-1)	NM 001327	Hs.8 7225	2.3	1269 1270 5765
20	430060	roundabout (axon guidance receptor, Dro	NM_002941	Hs.3 01198	23	2645 2646 6768
	444561	c-fos induced growth factor (vascular e	NM_004469		2.3	3705 3706 7658
	437696	hypothetical prolein dJ37E16.5	Z83844	Hs.5790	2.3	3281 7274
	424893	Homo sapiens cDNA FLJ13303 fis, clone	O AW295112	Hs.153648	2.3	2020 6313
25	443785	basic-helix-loop-helix-PAS protein	AW449952	Hs.190125	2.3	3645 7607
25	409041	Hypothetical protein, XP_051860 (KIAA11	AB033025	Hs.50081	2.3	299 300 5017
	454410	gb:RC3-ST0186-181099-012-c09 ST0186			2.3	4499 8305
	456068	RGC32 protein	A1677897	Hs.76640	2.3	4513 8318
	410126 440129	KIAA0036 gene product	BE169274	Hs.167	2.3	424 5109
30	452352	ESTs, Weakly similar to S71886 Ste20-li		Hs.369523	2.3	3456 7436
50	411642	X11L-binding protein 51 neuroligin 1	BE301921	Hs.324104	2.3	4319 8156
	425801	gb:HSC14H051 normalized intent brain co	NM_014932		2.3	544 545 5200
	419133	protein tyrosine phosphatase, receptor	U46116	Hs.343666 Hs.89627	2.3 2.3	2144 6397
	401961	NM_021626:Homo sapiens serine carboxy		110.03027	2.3	1307 1308 5795 4669
35	453751	Homo saplens cDNA: FLJ21238 fis, clone		Hs.101282	2.3	4436 8255
	425398	hypothetical protein similar to tenasci	AL049689	Hs.156369	2.3	2101 2102 6370
	443916	hypothetical protein DKFZp434C2322	AV647043	Hs.131433	2.3	3658 7619
	426322	transcobalamin I (vitamin B12 binding p	J05068	Hs.2012	2.3	2206 2207 6443
40	417337	ESTs	AW292905	Hs.128770	2.3	1098 5638
40	408015	epidermal differentiation complex prote	AW136771	Hs.244349	2.3	184 4926
	430850	gb:MR0-HT0165-060200-006-e02 HT0165	Hom BE144	152	2.3	2734 6830
	408513	ÉSTs.	AW20646B	Hs.103118	2.3	234 4965
	419940		AW611903	Hs.144585	2.3	1397 5864
15	410581		AA018982	Hs.125036	2.3	478 5146
45	409098	pleckstrin homology, Sec7 and coiled/co	AA132672	Hs.7984	23	303 5020
	434741	ESTs, Weakly similar to ALU1_HUMAN A		Hs.270538	2.3	3072 7096
	433372		A1625577	Hs.287727	2.3	2974 7015
	445526		AA223447	Hs.12835	2.3	3779 7715
50	414110 403574	gb:601112444F1 NiH_MGC_16 Homo sap Target Exon	oiens BE2517	52	2.3	776 5385
50	425227		U044EE	LI- 40000	2.3	4724
	452339		H84455 R31567	Hs.40639	2.3	2069 6348
	416857	FGENESH predicted TM containing protein		Hs.97169 Hs.292453	2.3 2.3	4316 8154
	425781		AF001622	Hs.159523	2.3	1042 5592
55	450513		N27780	Hs.374621	2.3	2140 2141 6395
	406064	Target Exon		110.01.1021	2.3	4172 8038 4799
	434269	similar to murine leucine-rich repeat p	AK001991	Hs.3781	2.3	3037 3038 7069
	412218	gb:QV0-NN1020-170400-195-h02 NN1020	Hom AW901	809	2.3	578 5227
C 0	402742	NM_002508:Homo sapiens nidogen (enac	tin		2.3	4690
60	433927	small nuclear protein PRAC	Al557019	Hs.116467	2.3	3015 7049
	434728	Homo sapiens cDNA: FLJ22749 fis, clone	AA644655		2.3	3071 7095
	411893			Hs.273789	2.3	558 5211
	444649			Hs.371001	2.2	3710 7662
65	413457 427297	ESTS	AW974787	Hs.114956	2.2	724 5341
05	446189	Homo sapiens, clone MGC:17333, mRNA, ESTs				2315 6518
	401974	NM_018896*:Homo sapiens calcium chann	H85224	Hs.214013	2.2	3822 7750
	424578			Ur 150900	2.2	4672
	438555	Homo sapiens mRNA for FLJ00024 protein		Hs.150890 Hs.143878	2.2 2.2	1973 1974 6280
70	452188			Hs.176275	2.2	3334 7322 4294 8136
	423629	Homo sapiens cDNA: FLJ21909 fis, clone	AW021173	Hs.18612	2.2	1828 6180
	429424			Hs.381154	2.2	2559 6707
	422611	fucosyltransferase 8 (alpha (1,6) fucos		Hs.118722	2.2	1712 6094
75	406483	NM_003059*:Homo sapiens solute carrier			2.2	4807
75	423632	gb:EST32358 Embryo, 12 week I Homo sa	pi AA328824	Hs.188490	2.2	1829 6181
	41 1880	gb:hm30f03.x1 NCI_CGAP_Thy4 Homo sa	pien AW8724	77	2.2	556 5209
	448664	splicing factor 3a, subunit 1, 120kD	AJ879317	Hs.334691	2.2	4024 7916
	453197	ESTs, Weakly similar to ALU5_HUMAN AL	U AI916269	Hs.127804	2.2	4402 8226
80	423337		NM_004655 1		2.2	1796 1797 6156
90	408049			Hs.345588	2.2	187 4929
	410929 415400			Hs.30643	2.2	504 5166
	413059	gb:RC0-HT0295-291199-031-E11 HT0295	Z42803 Hom BE1514	Hs.23772	2.2	020 0001
	453041	Homo sapiens cDNA FLJ11918 fis, clone H			22	675 5307
85	452834	10		Hs.289068 Hs.105685	22	4384 8211
	412591	ESTs, Weakly similar to T26845 hypothet (Hs.292653	2.2 2.2	4356 8187 614 5356
					4.4	614 5256

	40.4000	For.	*******			
	434997	ESTs	AW975155	Hs.146014	2.2	3095 7114
	449461	ESTs	AI652043	Hs.195363	2.2	4090 7972
	436761	ESTs	AI817776	Hs.236557	2.2	3213 7214
5	429470	guanine nucleotide binding protein (G p	AI878901	Hs.203862	2.2	2564 6711
,	427129	sine oculis homeobox (Drosophila) homol	H29990	Hs.356340	2.2	2304 6510
	405078	Target Exon			2.2	4770
	404682	ortholog of mouse polydomain protein			2.2	4757
	402864	Target Exon	412004004		2.2	4696
10	407803	ESTs, Weakly similar to T42689 hypothet	AW081681	Hs.269064	2.2	163 4907
10	404673	Target Exon			2.2	4755
	444579	ESTs, Weakly similar to A56194 thrombo		Hs.301564	2.2	3708 7660
	424375	Homo sapiens clone 24820 mRNA seque			2.2	1939 6256
	424442	ESTs, Weakly similar to ZN91_HUMAN Z			2.2	1954 6268
15	441746	ESTs	H59955	Hs.127829	2.2	3535 7507
15	404735	cofilin 1 (non-muscle)			2.2	4760
	408604	ESTs	D51408	Hs.21925	2.2	243 4973
	447623	Homo sapiens cDNA: FLJ23020 fis, clone		Hs.6127	2.2	3942 7849
	431285	ESTs	AW301205	Hs.189422	2.2	2770 6856
20	401851	NM_002401*:Homo sapiens mitogen-activ			2.2	4666
20	419157	ESTs	AA234540	Hs.23871	2.2	1313 5798
	439696	ESTs	W95298	Hs.171882	2.2	3419 7402
	446645	ESTs	Al336596	Hs.97266	2.2	3864 7785
	438552	type I transmembrane receptor (seizure-		Hs.6314	2.2	3332 3333 7321
25	445363	tubulin-specific chaperone d	NM_005993		2.2	3762 3763 7702
23	421680	Human DNA sequence from clone CTA-9				1576 1577 5992
	414701	gb:HTM1-811F HTM1 Homo sapiens cDN	IA, mR BE440	040 Hs.19363		851 5447
	400504	Target Exon	. 5005.400		2.2	4629
	407438	gb:Homo saplens candidate taste recepto			2.2	138 139 4886
30	412148	gb:yp82c03.s1 Soares fetal liver spleen	R83307		2.2	574 5224
30	453872	ESTs	R59989	Hs.176539	2.2	4455 8269
	442204	ESTs	Al635450	Hs.21914	2.2	3553 7525
	411027	leukocyte immunoglobulin-like receptor,	AF072099	Hs.67846	2.2	509 510 5170
	437230	ESTs	AL133065	Hs.48996	2.2	3248 7245
35	400632	C10001871*:gl 1705533 sp P32018 CA1E			2.2	4635
33	409549	phospholipase C, epsilon 2	AB029015	Hs.54886	2.2	357 358 5059
	405522	C8001409*:gi]7441226[pir][S31212 collag			2.2	4787
	425247	matrix metalloproteinase 11 (stromelysi	NM_005940		2.2	2072 2073 6351
	416031	ESTs, Weakly similar to T00329 hypothet		Hs.107515	2.2	963 5531
40	422311	cytokine receptor-like factor 1	AF073515	Hs.114948	2.2	1669 1670 6062
40	425856	hypothetical protein FLJ13993	AA364908	Hs.98927	2.1	2151 6403
	405401	C12001565*:gi 11067002 gb AAG02570.1			.2.1	4780
	419049		A1278445	Hs.43334	2.1	1292 5783
_	406796	ribosomal protein L6	A1890167	Hs.349961	2.1	66 4833
45	419584	F-box only protein 24	AF053356	Hs.283764	2.1	1357 1358 5832
73	409672	ESTS	AW971226	Hs.298893	2.1	375 5072
	431189 455813 · ··	ESTs	Al627353	Hs.126120	2.1	2758 6846
	450530	gb:QV2-HT0083-071299-018-a11 HT0083			2.1	4509 8315
	456600	cytochrome P450, subfamily 46 (choleste DKFZP56400823 protein			2.1	4173 4174 8039
50	446904	DKFZP434H204 protein	AL080121	Hs.105460	2.1	4524 4525 8328
50	423956	Homo sapiens clone 25215 mRNA sequel	AL110226	Hs.16441	2.1 2.1	3875 3876 7795
	449773	ESTs	R76294	Ws.136169	2.1	1877 6214
	457740	KIAA0460 protein	AW500458	Hs.302383		4113 7991
	437219	ESTs	AW975966	Hs.29956	2.1 2.1	4560 8358
55	453983	ESTs	H94997	Hs.27788	21	3246 7243
	423944	phosphodiesterase 10A	T91433	Hs.16450 Hs.348762	2.1	4476 8286 1876 6213
	405563	ENSP00000248912*:IG lambda chain V n		113.540102	2.1	4790
	404033	C5000413*:gi[202800]gb]AAA40703.1] (M			2.1	4736
	423225	Thy-1 cell surface antigen	AA852604	Hs.125359	2.1	1786 6148
60	457458	ESTs	AW972881	Hs.276507	2.1	4552 8352
	436315	hypothetical protein MGC4837	BE390513	Hs.27935	2.1	3182 7187
	438393	Homo sapiens cDNA: FLJ22272 fis, clone		Hs.50740	2.1	3319 7309
	449625	odz (odd Oz/ten-m, Drosophila) homolog		Hs.3 49094	2.1	4101 4102 7982
	448390	hypothetical protein	AL035414	Hs.21068	2.1	3999 7897
65	456549	ESTs	AA283740	Hs.89211	2.1	4523 8327
	419694	hypothetical protein FLJ22029	AW293506	Hs.285243	2.1	1372 5845
	426659	ESTs, Weakly similar to T21371 hypothet	AA382928	Hs.16450	2.1	2260 6478
	401628	ENSP00000219101*:WWP2.			2.1	4657
70	430444	ESTs	AW296421	Hs.121035	2.1	2700 6806
70	424911	ESTs	AA984364	Hs.7913	2.1	2026 6317
	422810	Ksp37 protein	AA317400	Hs.98785	2.1	1743 6116
	458935	CDP-diacylglycerol synthase (phosphatid		Hs.24812	2.1	4585 4586 8382
	459487	gb:zl78b05.s1 Soares_fetal_liver_spleen	AA699665		2.1	4593 8389
75	447771	ESTs	BE505004	Hs.25348	2.1	3963 7865
75	436748	collagen, type VI, alpha 2	BE159107	Hs.159263	2.1	3212 7213
	433417	Homo saplens, Similar to RIKEN cDNA 58	3 AA587773	Hs.8859	2.1	2976 7017
	411101	gb:RC2-CT0298-300100-014-h09 CT0298		B16	2.1	514 5174
	408953	ESTs	AW297144	Hs.335802	2.1	282 5004
90	457067	hypothetical protein FLJ22624	R36022	Hs.179566	2.1	4539 8340
80	441405	ESTs	AW136087	Hs.126896	2.1	3517 7490
	400360	Homo sapiens pregnancy-induced hyperte			2.1	16 17 4623
	435384	gb:ac29b10.s1 Stratagene ovary (937217)		Hs.380314	2.1	3122 7138
	442117	ESTs; hypothelical protein for IMAGE:44		Hs.128899	2.1	3551 7523
85	422766 406004	heparan sulfate (glucosamine) 3-O-sulfo		Hs.159572	2.1	1735 6111
33	406904	gb:Human SEF2-1D protein (SEF2-1D) m		11. 4.55	2.1	75 76 4841
	418383	ESTs	AA218986	Hs.118854	2.1	1224 5733

	401502	Towns Fire				
	401583 402236	Target Exon NM_025040:Horno saplens hypothetical			21 21	4655
	423604	ESTs	дю AA486585	Hs.258901	21	4675 1825 6178
_	402888	Target Exon	741100000	TIGAL COOK	2.1	4698
5	443620	ESTs, Weakly similar to ALU7_HUMAN	ALU A1079575	Hs.134540	2.1	3630 7593
	428046	ESTs, Moderately similar to 138022 hypo		Hs.337534	21	2393 6579
	419198 446918	ESTs KIAA1677 amtain	AA234938	Hs.87384	2.1	1315 5800
	447720	KIAA1577 protein ESTs	AL135125 AL038765	Hs.13913 Hs.161304	2.1 2.1	3877 7796 3952 7858
10	440483	ESTs	Al200836	Hs.356890	2.1	3467 7446
	416406	lipoma HMGIC fusion partner-like 2	D86961	Hs.79299	2.1	1001 1002 5564
	448997	hypothetical protein FLJ20898	AA130390	Hs.25549	2.1	4057 7941
	425403 457646	Human DNA sequence from clone 1198 ESTs				2103 6371
15	413482	ESTs	AA725650 AA129869	Hs.112948 Hs.197143	2.1 2.1	4559 8357 727 5344
	427778	ESTs	AA412323	Hs.105323	21	2368 6559
	419043	ets variant gene 1	T19167	Hs.89566	2.1	1291 5782
	421568	ESTs	W85858	Hs.99804	2.1	1565 5985
20	421398 424551	vav 2 oncogene	AW629852	Hs.4248	2.1	1540 5970
20	401754	KIAA0320 protein C17002014*:gi 12740832 ref XP_008642	AB002318	Hs.150443	2.1 2.1	1970 1971 6278
	405230	C2001066:gij10257425 ref NP_033892.1			2.1	4659 4773
	419700	galactokinase 1	AF084935	Hs.92357	2.1	1373 1374 5846
25	400135	Eos Control		Hs.118890	2.1	4597
23	408209 404685	ets variant gene 5 (ets-related molecul NM_022127:Homo sapiens solute carrier	NM_004454	Hs.4 3697	2.1	204 205 4944
	454013	growth hormone releasing hormone	L00137	Hs.37023	2.1 2.1	4758
	446048	KIAA1811 protein	Al272364	Hs.182081	21	4479 4480 8289 3815 7743
20	433323	ESTs	AA805132	Hs.159142	2.1	2970 7011
30	436773	PC4 and SFRS1 interacting protein 1	AW078629	Hs.351305	2.1	3215 7216
	415345 452997	gb:HSC11C121 normalized infant brain of ESTs		11 44050	2.1	924 5500
	423582	Homo sapiens cDNA FLJ11812 fls, clone	N64777	Hs.44656 Hs.23837	2.1 2.1	4377 8205
	423508	hepatitis A virus cellular receptor 1	AW604297	Hs.129711	2.1	1821 6174 1814 6168
35	437544	EST	AL037786	Hs.210786	2.1	3269 7263
	448211	PRO0659 protein	BE384592	Hs.6451	2.1	3989 7888
	421100 414611	Homo sapiens cDNA: FLJ21763 fis, clone	e AW351839		2.1	1505 5944
	400098	Homo sapiens cDNA FLJ13656 fis, clone Eos Control	P AA149955	Hs.85077	2.1 2.1	837 5437
40	414443	platelet-derived growth factor receptor	AU077268	Hs.76144	2.1	4596 817 5421
	429091	ESTs	AA935658	Hs.374241	21	2512 6671
	410295	nidogen (enactin)	AA741357	Hs.356624	2.1	450 5127
	435397	ESTs	A1809920	Hs.199676	2.1	3123 7139
45	430228 451302	ESTs, Highly similar to T00391 hypothet ESTs	AW950939 H39006	Hs.6382	2.1 2.1	2663 6780
•••	414633	gb:zi07b07.s1 Soares_pregnant_uterus_			2.1	4223 8080 839 5439
	450408	ESTs	A1694959	Hs.202340	21	4164 8032
	452328	ESTs	AA805679	Hs.61271	2.1	4315 8153
50	421197	gb:zl21g02.r1 Soares ovary turnor NbHO	T AA284739	Hs.344806	2.1	1516 5953
50	438816 439791	gb:PM0-LT0017-031299-001-c07 LT0017 ESTs	/ Hom AVV8356 H77774	329 Hs.35755	2.1 2.1	3354 7338
	440326	ESTs	AW630250	Hs.132161	21	3432 7415 3466 7445
	458846	ESTs	AI589615	Hs.185602	2.1	4582 8379
55	403433	NM_001622:Homo sapiens alpha-2-HS-g			2.1	4720
55	426773 404917	KIAA0440 protein	NM_015556	Hs.1 72180	2.1	2269 2270 6484
	417272	Target Exon ESTs	AA343751	Hs.85992	2.1 2.1	4764 1093 5633
	428433	ESTs	AA521410	Hs.41371	2.1	2442 6620
60	449634	ESTs	Al656553	Hs.197715	20	4103 7983
60	434241	Homo sapiens PRO3077 mRNA, complet	te cds AF11991	13	20	3034 3035 7067
	402001 427876	Target Exon ESTs	AJ494291	Lie 200174	2.0	4673
	409112	quinone oxidoreductase homolog	BE243971	Hs.369171 Hs.50649	2.0 2.0	2381 6569 306 5022
<i>C</i> =	445289	ĖSTs	AW275575	Hs.371247	20	3756 7698
65	408870	ESTs	AA058586	Hs.129907	2.0	271 4996
	419536	gb:np12d11.s1 NCI_CGAP_Pr3 Homo sa	piens AA60330	05	2.0	1347 5826
	413305 455046	Homo sapiens cDNA: FLJ23176 fis, clone gb:PM0-CT0237-141099-001-c06 CT023			2.0	697 698 5324
	424291	ephrin-B1	AL120051	Hs.144700	2.0 2.0	4504 8310 1931 6249
70	440966	ESTs, Weakly similar to MCAT_HUMAN I		6 Hs.376694	2.0	3491 7467
	423469	DKFZP586N1922 protein		Hs.7357	2.0	1811 6166
	402945 419687	Target Exon	**************************************		2.0	4699
	405651	ESTs, Weakly similar to T2D3_HUMAN T Target Exon	RAN AI638859	Hs.227699	2.0	1369 5842
75	423925	Human clone 23629 mRNA sequence	AW003668	Hs 135587	2.0 2.0	4791 1873 6211
	429955	ESTs, Weakly similar to ZN91_HUMAN Z	INC AA461317	Hs.247150	2.0	2625 6753
	426514	bone morphogenetic protein 7 (osteogen)	BE616633	Hs.170195	2.0	2246 6470
	448019	ESTs, Moderately similar to 138022 hypo		Hs.195641	2.0	3970 7872
80	412902 427400	gb:QV0-BN0147-290400-214-c01 BN014: hypothetical protein FLJ11939			2.0	654 5289
50	427400	hypothetical protein FLJ20449		Hs.94229 Hs.130546	2.0 2.0	2325 6525 1833 1834 6184
	450785	Homo sapiens, alpha-1 (VI) collagen		Hs.108885	2.0	4193 8056
	420743	ESTs	AA279885	Hs.99745	2.0	1475 5921
85	449851	ESTs	AW207738	Hs.231946	2.0	4118 7996
35	419437 430891	neogenin (chicken) homolog 1 G protein-coupled receptor 8		Hs.90408	2.0	1338 1339 5820
	-10003 I	O protein-worken receptor o	U22492	Hs.248118	2.0	2737 2738 6832

	434011 401972	NM_018895*:Homo sapiens calclum chan		Hs.5486	20 20	3023 7056 4670
	450271	20.0	A1693900	Hs.87224	20	4150 8020
5	431475	putative nuclear protein	Al567669 M34996	Hs.40342 Hs.198253	2.0 2.0	2791 6873 90 91 4821
5	406673 438251	major histocompatibility complex, class ESTs	Al435502	Hs.14931	20	3310 7302
	402285	sclerostin	74100004		2.0	4677
	423940	SEC14 (S. cerevisiae)-like 2	NM_012429	Hs.2 77728	2.0	1874 1875 6212
	454050	ESTs	AW022889	Hs.233176	2.0	4484 8293
10	428664	similar to SALL1 (sal (Drosophila)-like	AK001666	Hs.189095	2.0	2461 6633
	428878	ESTs	AA436884	Hs.48926	2.0	2486 6652
	439668	frizzled (Drosophila) homolog 8	A1091277 AJ001531	Hs.302634 Hs.22404	2.0 2.0	3414 7397 4045 4046 7933
	448882 407915	protease, serine, 12 (neurotrypsin, mot ESTs, Weakly similar to JC5256 adipocyt		Hs.313515	2.0	181 4923
15	435977	brain-specific membrane-anchored protei		Hs.5012	2.0	3166 7174
	417563	gb:zx52a10.r1 Soares_fetal_liver_spleen			2.0	1133 5661
	426666	CD22 antigen	AW500131	Hs.171763	2.0	2261 6479
	419200		AW966405	Hs.313342 Hs.22895	2.0 2.0	1316 5801 908 5487
20	415079 446205	hypothetical protein FLJ23548 ESTs	R43179 AW172662	Hs.149479	2.0	3823 7751
20	457207	to the state of the boundaries of	H56585	Hs.198308	2.0	4541 8342
	442414	riyptophan non basic protein (BE408758	Hs.8297	2.0	3560 7532
	401356	turnor protein D52-like 1			2.0	4649
0.5	411171	gb:QV2-ST0296-150200-040-c10 ST029			2.0	518 5178
25	458202	ESTs	C14215 AW195849	Hs.102572 Hs.252757	2.0 2.0	4568 8365 4393 8219
	453118	ESTs hypothetical protein	AF208855	Hs.12830	2.0	3777 3778 7714
	445517 420762	dolichyl-phosphate (UDP-N-acetylglucosi		Hs.143509	2.0	1477 5923
	454074	ESTs	R63503	Hs.159795	2.0	4488 8296
30	425741	Homo sapiens clone 24628 mRNA seque			20	2133 6391
	442609	selenoprotein N	AL020996	Hs.8518	2.0	3574 7544
	412806	L-kynurenine/alpha-aminoadipate aminot		Hs.352546	2.0 2.0	648 5284 4711
	403226 434539	C2001193*:gij9966829 ref NP_065091.1 ESTs, Weakly similar to MUC2_HUMAN	II Milci awitar	8078 He 2144		3059 7085
35	434333	Homo saplens cDNA FLJ20653 fis, clone	K W19744	Hs.180059	2.0	2354 6548
55	450823	complement-c1q tumor necrosis factor-re		Hs.22011	2.0	4198 8059
	446254	Homo sapiens cDNA FLJ12832 fis, clone	N BE179829		2.0	3830 7757
	443888	hypothetical protein FLJ12752	A)434150	Hs.237146	2.0	3654 7615
40	444121	ESTs gb:lL3-CT0219-280100-062-B11 CT021	Al124734	Hs.40866 AW850510	2.0	3678 7636 2.0 540 5197
40	411536 447949	EST	A1446820	Hs.165839	2.0	3969 7871
	412275	gb:QV2-NN1073-220400-159-h12 NN10			2.0	579 5228
	456103	ESTs .	Z39430	Hs.213248	2.0	4514 8319
45	401111	Target Exon		•	2.0	
45	404156	C6002456:gi 6755268 ref NP_036008.1	RA		2.0 2.0	4739 4745
	404293 432525	ligand of neuronal nitric oxide synthas ESTs, Weakly similar to YQ42_CAEEL I	YPO AI7960	96 Hs.109414		2882 6943
	437845	ESTs	AA769578	Hs.90488	2.0	3290 7283
	456805	empty spiracles (Drosophila) homolog 1	AW771596		2.0	4530 8333
50	458560	hypothetical protein MGC16202	A1699099	Hs.246914	2.0	4576 8373
	458676	ESTs	A1692464 M58524	Hs.202263 Hs.2025	2.0 2.0	4578 8375 2210 2211 6446
	426363 420324	transforming growth factor, beta 3 prostate androgen-regulated transcript	AF163474	Hs.96744	2.0	1445 1446 5902
	406634	GDP dissociation inhibitor 1	AA386235	Hs.74576	2.0	31 4813
55	433365	ESTs	AF026944	Hs.293797		2973 7014
	422627	transforming growth factor, beta-induce	BE336857	Hs.118787	2.0	1715 6097
	449579	ESTs, Weakly similar to T46425 hypothe	01 AW2U/26U AA861611	Hs.134014 Hs.130643		4097 7978 3447 7429
	440037 409200	ESTs KIAA0076 gene product	AL042914	Hs.51039	2.0	325 5037
60	412104	Homo sapiens, Similar to RIKEN cDNA			2.0	569 5220
	416110	hypothetical protein DKFZp564A176	Z42262	Hs.322844		974 5541
	445644	ESTs, Moderately similar to A47582 B-c	e R77766	Hs.271593		3788 7720
	407604	collagen, type VIII, alpha 2 ELAV (embryonic lethal, abnormal visio	AW191962	2 Hs.353001 Hs.166109	2.0 2.0	145 4891 2284 6495
65	426919 428949	hypothetical protein DKFZp434J0617	AA442153			2490 6655
05	456034	gb:UI-H-BI3-ala-a-12-0-UI.s1 NCI_CGA			2.0	4510 8316
	434149	hypothetical protein MGC5469	Z43829	Hs.244624		3030 7063
	452119	ESTs	AI656378	Hs.33461	2.0	4291 8133
70	447499	protocadherin beta 16	AW262580 AA467752			3934 7842 980 5547
70	416201 423568	ESTs growth arrest-specific 2		56 Hs.1 29818		1818 1819 6172
	431103	plelotrophin (heparin binding growth fa	M57399	Hs.44	2.0	2748 2749 6840
	433972	cisplatin resistance-associated overexp	Al878910	Hs.278670		3021 7054
75	400235	NM_005336:Homo sapiens high density		Hs.177516		4604
75	440652	ESTs ESTs, Weakly similar to 138022 hypothe	Al216751	Hs.143977		3478 7456 640 5277
	412782 403857	Target Exon	. MIU3211	Hs.259347	1.9	4730
	450258	chimedn (chimaedn) 2	R94862	Hs.286055		4149 8019
• •	431242	KIAA1201 protein	AA987742	. Hs.347534	1.9	2766 6853
80	432952	Homo sapiens cDNA FLJ12187 fis, clor				2918 6972
	408212	hypothetical protein ESTs, Weakly similar to T13476 hypoth	AA297567 AA297567		1.9 1.9	206 4945 3577 7547
	442694 401797	Target Exon	ME1123E	Hs.255939	1.9	
	401797	C7002058:gi[585761]sp]P38024]PUR6	_CHICK		1.9	4722
85	452965	Human DNA sequence from clone RP1	1-524D AI904			
	433859	ESTs	AW89675	8 Hs.27378	1.9	3010 7045

	40000					
	436252	Homo sapiens cDNA FLJ11562 fis, clone	H AI539519	Hs.142827	1.9	3179 7184
	430110 403404	gb:aa24c01.r1 NCI_CGAP_GCB1 Homo	saplen AA465	5314	1.9	2649 6771
	407753	Target Exon ESTs	AL045916	He 170070	1.9 1.9	4718
5	436838	ESTs	AW978101	Hs.179972 Hs.291787	1.9	157 4901 3219 7220
_	429150	smoothened (Drosophila) homotog	AF120103	Hs.197366	1.9	2519 2520 6677
	420103	aldehyde dehydrogenase 1 family, memb			1.9	1416 5878
	446936	ESTs	H10207	Hs.47314	1.9	3880 7798
10	423961	periostin (OSF-2os)	D13666	Hs.136348	1.9	1878 1879 6215
10	440704	insulin-like growth factor binding prot	M69241	Hs.162	1.9	3482 3483 7459
	414764 435931	ESTs RNA binding motif protein 9	AW013887	Hs.31522	1.9	868 5460
	426138	Homo sapiens clone 23798 and 23825 m	A1077464	Hs.351478 Hs.167036	1.9 1.9	3163 7171
	426054	ELAV (embryonic lethal, abnormal vision		Hs.166109	1.9	2178 <u>-</u> 6423 2164 2165 6413
15	427375	metallocarboxypeptidase CPX-1	AL035460	Hs.177536	1.9	2320 2321 6522
	423600	ESTs	Al633559	Hs.310359	1.8	1824 6177
	420705	fetal Alzheimer anligen	AB032251	Hs.99872	1.8	1471 1472 5919
	448379	KIAA1130 protein	Al097463	Hs.21035	1.8	3995 7894
20	431457 413195	integrin, alpha 11		Hs.2 56297	1.8	2787 2788 6870
20	425064	protease, serine, 12 (neurotrypsin, mot ESTs	AA127382	Hs.22404	1.8	686 5316
	411737	hypothetical protein	AW953237 AW160339	Hs.193513 Hs.71791	1.8 1.8	2041 6328
	440293	ESTs	Al004193	Hs.238889	1.8	548 5203 3465 7444
25	434355	ESTs	AA630865	Hs.186556	1.8	3049 7076
25	401849	Target Exon			1.8	4665
	442420	ESTs	AI024834	Hs.131729	1.8	3561 7533
	414142	hemicentin (fibulin 6)	AW368397	Hs.334485	1.8	781 5390
	441149 452862	ESTS	Al569766	Hs.13205	1.8	3501 7476
30	429910	ADAMTS2 (a disintegrin-like and metall 5-hydroxytryptamine (serotonin) recepto	AW378065	Hs.8687	1.8	4360 8190
-	424077	Homo sapiens mRNA; cDNA DKFZp5640	NM_000867 31162 (A) 08/	115.2 307 1182 He 13900	1.8 6 1 R	2617 2618 6747 1892 6224
	433455	ESTs	AA360439	Hs.49476	1.8	2982 7022
	437327	Homo sapiens mRNA; cDNA DKFZp7611	.23121 AL35	3942 Hs.30650	4 1.8	3252 7249
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	425297 448425	gb:EST63062 Jurkat T-cells V Homo sap		11- 074040	1.8	2086 6361
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40	423013	secreted modular calcium-binding protei	AW875443	Hs.22209	1.8 1.8	454 5130 1760 5135
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	412182	Splicing factor, arginine/serine-rich.	AA205588	Hs.144006 Hs.73737	1.7 1.7	3872 7792 577 5226
50	419745	slug (chicken homolog), zinc finger pro	AF042001	Hs.93005	1.7	1381 1382 5851
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	435605	ESTs	Al187742	Hs.125562	1.7	3204 7206
	405387	NM_022170*:Homo sapiens Williams-Ber	uren		1.7	4779
55	440676	LIM and senescent cell antigen-like dom	NM_004987	Hs.1 12378	1.7	3479 3480 7457
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20	Gene name:		•						
	Accession:		ssion number, Genbank æ	cession numb	er				
	UniGene:	Unicene numbe	er '					m 4 10 41	
0.5	RATIO:				ercentile of n	ormal tiss	ue Als, where the 10th p	percentile of normal tissue Als was subtracted	J
25	SEQID#:	from both the n	umerator and denominator d protein sequences provid	lad on CD for a	eparch numae	20.			
	SECTION.	HULLER BLAG BIN	protein acquences provi		oadii paipoo				
	Pkey	Gene Name		Accession	UniGene	RATIO	SEQID#		
20	428087	troponin C2, fas	st		Hs.182421	37.1	2396 6582		
30	407245	titin		X90568 AA090235	Hs.172004 Hs.75535	36.1 33.6	132 133 4881 740 5356		
	413778 425545	Homo saniens	olypeptide 2, regulatory ctone MGC:12401, mRN/		Hs.158295	30.2	2114 6379		
	426752	titin	0.0110 1110 0.7 12 10 1, 111 0 0	X69490	Hs.172004	30.2	2266 2267 6482		
	409169	(clone PWHLC	2-24) myosin light chain 2	F00991	Hs.50889	27.6	316 5029		
35 .	400440	nebulin		X83957	Hs.83870	24.6	24 25 4627		
	407013		ulin mRNA, partial cds	U35637 L32137	Hs.83870 Hs.1584	23.4 22.6	94 95 4851 1751 1752 6122		
	422867 428221	ATPace Cairs	neric matrix protein (ps ansporting, cardiac muscle	U96781	Hs.183075	22.3	2408 2409 6592	•	
	412129	troponin T3, sk	eletal, fast	M21984	Hs.73454	22.0	571 572 5222		
40	406704	myosin, heavy	potypeptide 7, cardiac mu	M21665	Hs.929	20.7	55 56 4826		
	406707		polypeptide 2, skeletal m	S73840	Hs.931	20.6	61 62 4829		
	412519	troponin T1, sk		AA196241	Hs.73980	18.4 18.3	598 5244 4767	•	٠
-	405001 417435		ancer binding factor 1 frase III, muscle specific	NM_005181-	Hs.8 2129	18.2	1121 1122 5655		
45	418205	troponin I, skel	etal, fast	L21715	Hs.83760	17.4	1204 1205 5720		
	452838	preferentially e	xpressed antigen in mel	U65011	Hs.30743	17.0	4357 4358 8188		
	422633	enolase 3, (bet		X56832	Hs.118804	16.9	1716 1717 6098		
	406706 422640	myosin, heavy troponin C, slo	polypeptide 1, skeletal m	X03740 M37984	Hs.231581 Hs.118845	16.9 16.9	59 60 4828 1718 1719 6099	· •	
50	410223		fast-twitch, skeletal	S73775	Hs.60708	15.7	433 434 5115		
50	418391	troponin I, skel		NM_003281		13.9	1228 1229 5736		
	414152	thrombospond		NM_003248		13.7	782 783 5391		
	416373		similar to \$12658 cysteins		Hs.73680	13.7	996 5559 1070 5614		
55	417070	titin namolinin		Z19077 NM_003063	Hs: 172004	13.5 13.4	3852 3853 7774		
))	446523 422069	sarcolipin titin-cap (teleth	nonia)	AJ010063	Hs.343603	13.4	1635 1636 6037		
	431204	cytochrome c	oxidase subunit VIa polype	F28841	Hs.250760	13.4	2760 6848		
	428405	cholinergic rec	eptor, nicolintc, alpha	Y00762	Hs.2266	13.2	2436 2437 6615		
60	421566		esponse 2 (Krox-20 (Droso	NM_000399 AA194412	Hs.1 395 Hs.50550	12.9 12.8	1563 1564 5984 302 5019	•	
60	409096 418533	sarcomeric mu	g protein C, fast-type	NM_004533		12.5	1253 1254 5754		
	424982	phosphorylase	e, glycogen; muscle (McAr		Hs.351580	12.4	2036 2037 6325		
	431205	tropomodulin 4	4 (muscle)	AA194560	Hs.250763	12.4	2761 6849		
<i>(</i>	408915		carcinoma novel gene-3 pr	NM_016651	Hs.4 8950	12.3	274 275 4998		
65	419138 418390	ryanodine reci	eptor 1 (skeletal) obulin domain protein (my	U48508	Hs.89631 Hs.84665	12.3 11.6	1309 1310 5796 1226 1227 5735		
	450701	hynothelical p	rotein XP_098151 (teucine	H39960	Hs.288467	11.5	4183 8048		
	400499		[6679124]ref[NP_032759.			11.4	4628		
~~	430681	ESTs		AW969675	Hs.291232	11.3	2719 6819		
70	426429		g protein C, slow-type	X73114 BE387335	Hs.169849 Hs.283713	11.1 11.1	2224 2225 6456 3697 7652	1	
	444381 420103		rotein BC014245 ydrogenase 1 family, mem			11.1	1416 5878		
	428398	ESTs	yerogenaso i lananji mom	Al249368	Hs.98558	10.8	2435 6614		
	426300	delta-like hom	olog (Drosophila)	U15979	Hs.169228	10.8	2196 2197 6437	•	
75	420197	ESTs, Wealdy	similar to A57291 cytokin	e AW139647	Hs.88134	10.6	1429 5889		
	400651		28031*:COPPER CHAPE	AF129505	Hs.86492	10.6 10.5	4636 3047 3048 7075		
	434352 453331	ests	protein, X-linked	AP 129505 Al240665	Hs.352537		4413 8236		
_	429973	ESTs		Al423317	Hs.164680	10.3	2628 6756		
80	411102	triadin		AA401295	Hs.23926	10.3	515 5175		
	416658		genital contractural ar	U03272	Hs.79432	10.1	1020 1021 5577	,	
	406687		oproteinase 11 (stromelysi y similar to 138344 tilin, c	M31126 AW975934	Hs.352054 Hs.172004	10.1 9.9	49 50 4823 3245 7242		
	437206 416378		y simuar to 130344 uun, c ut domain 2 (stretch respor		Hs.73708	9.7	997 5560	•	
85	436519	myozenin		AJ278124	Hs.238756		3196 3197 7200)	
-	444329		protein FLJ12921	W73753	Hs.209637		3693 7648		

	418072	Human DNA sequence from clone RP3-		Hs.86507	9.7	1190 5707
	410621 435370	tiin ESTs	AA194329	Hs.172004	9.6	481 5149
	419550	KIAA0128 protein; septin 2	AI964074 D50918	Hs.225838 Hs.90998	9.5 9.4	3120 7136 1348 1349 5827
5	429997	apolipoprotein 8 mRNA editing enzyme,		Hs.2 27457	9.3	2636 2637 6761
	416349	myomesin (M-protein) 2 (165kD)	X69089	Hs.79227	9.2	991 992 5556
	419301	teriomodulin protein	AA236166	Hs.132957	9.2	1328 5811
	421296 441134	perilipin	NM_002666		9.2	1525 1526 5961
10	450375	cellular retinolc acid-binding protein a disintegrin and metalloproteinase dom	W29092 AA009647	Hs.346950 Hs.352537	9.2 9.1	3500 7475
	409028	Z-band alternatively spliced PDZ-motif	AB014513	Hs.49998	8.6	4159 8028 296 297 5015
	423961	periostin (OSF-2os)	D13666	Hs.136348	8.6	1878 1879 6215
	421512	myomegalin	AB007923	Hs.265848	8.5	1554 1555 5979
15	444301	asporin (LRR class 1)	AK000136	Hs.10760	8.5	3691 3692 7647
13	411789 419050	Adlican adenosine monophosphate deaminase 1	AF245505	Hs.72157	8.5	553 554 5207
	428698	KIAA1866 protein	AA852773	Hs.334838	8.5 8.4	1293 1294 5784 2463 6635
	417689	KIAA0128 protein; septin 2	AA828347 `	8ee0e.aH	8.3	1148 5673
20	425065	Homo sapiens, clone IMAGE:3603836, n	nRNA AA3719(6 Hs.294151		2042 6329
20	406964 429500	FGENES predicted novel secreted protein		12- 000444	8.2	87 88 4847
	443727	hexabrachion (tenascin C, cytotactin) ESTs	X78565 Z25389	Hs.289114 Hs.18459	8.1 8.1	2574 2575 6718 3640 7603
	422311	cytokine receptor-like factor 1	AF073515	Hs.114948	8.0	1669 1670 6062
25	414219	ALL1-fused gene from chromosome 1q	W20010	Hs.75823	8.0	789 5397
25	419875	proenkephalin	AA853410	Hs.93557	8.0	1391 5859
	427674 450300	H2B histone family, member Q	NM_003528		7.9	2359 2360 6553
	429134	ESTs, Highly similar to ITH4_HUMAN IN ESTs	AA446953	Hs.58210 Hs.99004	7.9 7.9	4154 8024
	418113	SRY (sex determining region Y)-box 4	AI272141	Hs.83484	7.9 7.9	2514 6673 1194 5711
30	415672	ESTs	N53097	Hs.193579	7.9	937 5511
	424408	collagen, type V, alpha 1	AI754813	Hs.146428	7.9	1943 6260
	424086 424688	lysyl oxidase	AI351010	Hs.102267	7.8	1896 6227
	440704	myosin, light polypeptide 3, alkali; ve Insulin-like growth factor binding prot	AA216287 M69241	Hs.1815 Hs.162	7.7 7.7	1988 6290 3482 3483 7459
35	411852	ESTs, Weakly similar to T00329 hypothe		Hs.107515	7.7	555 5208
	451681	ESTs, Weakly similar to AA64_HUMAN 6		Hs.255950	7.7	4245 8097
	423575	intron of periostin (OSF-2os)	C18863	Hs.163443	7.5	1820 6173
	425308 421458	receptor tyrosine kinase-like orphan re carbohydrate (keratan sulfate Gal-6) su	M97639	Hs.155585	7.4	2087 2088 6362
40	417333	bromodomain and PHD finger containing	NM_003654 , AL157545	Hs.173179	7.4 7.4	1543 1544 5972 1096 5636
	418156	nuclear receptor subfamily 1, group 1,	W17056	Hs.83623	7.4	1198 5715
	408493	phosphoglycerate mutase 2 (muscle)	BE206854	Hs.46039	7.3	231 4962
	420212	calcium channel, voltage-dependent, L t			7.3	1432 1433 5892
45	416931 417074	adipose most abundant gene transcript 1 guanidinoacetate N-methyltransferese	D45371 Z49878	Hs.80485	7.3	1047 1048 5597
	417866	collagen, type XI, alpha 1	AW067903	Hs.81131 Hs.82772	7.3 7.2	1071 1072 5615 1162 5685
	421552	secreted frizzled-related protein 4	AF026692	Hs.105700	7.2	1559 1560 5982
	448493	ESTs	A1524124	Hs.270307	7.2	4006 7903
50	442376 438091	Homo sapiens cDNA FLJ12228 fis, clone		Hs.129982	7.2	3557 7529
50	438089	nuclear receptor subfamily 1, group I, nuclear receptor subfamily 1, group I.	AW373062 W05391	Hs.351546 Hs.351546	7.2 7.1	3302 7295
	449048	similar to S68401 (cattle) glucose indu	Z45051	Hs.22920	7.1	3301 7294 4061 7945
	428957	WNT1 inducible signaling pathway protei	NM_003881	Hs.1 94679	7.0	2491 2492 6656
55	427639	Homo sapiens, clone MGC:18257, mRNA			7.0	2353 6547
23	418054 440042	lysyl oxidase-like 2 ESTs	NM_002318		7.0	1184 1185 5702
	408988	Homo sapiens clone TUA8 Cri-du-chat re	A1073387	Hs.133898 Hs.49476	7.0 6.9	3448 7430 289 5009
	407112	ESTs, Weakly similar to ALU7_HUMAN A	LU AA070801	Hs.51615	6.9	111 4863
60	414443	platelet-derived growth factor receptor	AU077268	Hs.76144	6.9	817 5421
60	425227 414085	ESTs	H84455	Hs.40639	6.8	2069 6348
	422148	aldehyde dehydrogenase 1 family, memb histidine-rich calcium-binding protein		Hs.75746 Hs.1480	6.8 6.8	775 5384
	407204	ESTs, Weakly similar to ALU1_HUMAN A	LU R41933	Hs.140237	6.8	1651 1652 6048 121 4873
65	441636	Homo sapiens mRNA; cDNA DKFZp5666	183 (f AA0818	46 Hs.7921	6.8	3530 7502
65	453392	SRY (sex determining region Y)-box 11		Hs.32964	6.8	4416 4417 8239
	434449 431089	hypothetical protein FLJ22041 similar t ESTs, Weakly similar to unknown protein		Hs.3849	6.8	3057 7083
•	424375	Homo sapiens clone 24820 mRNA seque	BEU41393	Hs.374629	6.8 6.8	2745 6838 1939 6256
70	451698	endothelin converting enzyme-like 1		Hs.26880	6.7	4249 4250 8100
70	416559	ESTs		Hs.128060	6.7	1012 5571
	413011	biglycan -		Hs.821	6.7	669 5302
	452862 420028	ADAMTS2 (a disintegrin-like and metali carbohydrate (N-acetylglucosamine-6-O)	AW378065	Hs.8687	6.7	4360 8190
	433577	ESTs		Hs.8786 Hs.284192	6.7 6.7	1408 1409 5872 2989 7028
75	423044	protocadherin 18	AA320829	Hs.97266	6.6	1772 6138
	410102	ESTs; homologue of PEM-3 [Ciona savigation of PEM-3]	ny AW248508	Hs.279727	6.6	422 5107
	418045	ESTs	Al972919	Hs.118837	6.6	1183 5701
	419745 435905	slug (chicken homolog), zinc finger pro KIAA0456 protein		Hs.93005	6.6	1381 1382 5851
80	432408	ESTs, Weakly similar to A46010 X-linked	AW997484 N39127	Hs.5003 Hs.356235	6.6 6.5	3160 7168 2872 6934
-	439588	hypothetical protein FLJ12921		Hs.209637	6.5	3418 7401
	448731	ESTs		Hs.173179	6.5	4030 7922
	421143	Immunoglobulin superfamily containing I		Hs.102171	6.5	1510 1511 5949
85	423778 429892	flavin containing monooxygenase 2 myomesin 1 (skelemin) (185kD)		Hs.132821	6.5	1846 1847 6193
-5	413566	sprouty (Drosophila) homolog 4	NM_003803 F AW604451 1	15.2 504 Hs.381153	6.4 6.4	2614 2615 6745 730 5347
		· · · · · · · · · · · · · · · · · · ·				. 50 0047

	453575	peptidyl arginine deiminase, type II	AB023211	Hs.33455	6.4	4425 4426 8246
	407656	Homo sapiens mRNA; cDNA DKFZp434				148 4893
	420376 411296	protocadherin 18	AL137471	Hs.97266	6.3	1447 1448 5903
5	423225	growth suppressor 1 Thy-1 cell surface antigen	BE207307	Hs.10114	6.3	524 5183
•	433235	contactin 3 (plasmacytoma associated)	AA852604 AB040929	Hs.125359	6.3	1786 6148
	421487	serine/threonine kinase 23	AF027406	Hs.35089 Hs.104865	6.3 6.3	2963 2964 7006 1548 1549 5975
	402621	Target Exon	75 02/100	110-10-000	6.3	4684
	420842	hypothetical protein MGC10986	A1083668	Hs.50601	6.3	1485 5929
10	409361	sine oculis homeobox (Drosophila) homo	I NM 005982	Hs.5 4416	6.3	344 345 5049
	431183	KDEL (Lys-Asp-Glu-Leu) endoplasmic re	ะขี NM_006855	Hs.250696	6.3	2756 2757 6845
	413199	ELAV (embryonic lethal, abnormal vision	M62843	Hs.75236	6.2	687 688 5317
	418059	gb:zn56d05.s1 Stratagene muscle 93720	09 AA211586		6.2	1186 5703
15	437330 420576	Homo sapiens mRNA; cDNA DKFZp761. KIAA1858 protein				3253 7250
13	413795	ESTs	AA297634 AL040178	Hs.54925	6.2	1463 5914
	412104	Homo sapiens, Similar to RIKEN cDNA 2		Hs.142003	6.2 6.2	743 5358
	410611	KIAA1628 protein	AW954134	Hs.20924	6.1	569 5220 - 480 5148
••	449595	ESTs	AW293799	Hs.255238	6.1	4098 7979
20	418140	microfibrillar-associated protein 2	BE613836	Hs.83551	6.1	1196 5713
	421579	stem cell growth factor; lymphocyte sec	NM_002975	Hs.1 05927	6.1	1567 1568 5987
	414142	hemicentin (fibulin 6)	AW368397	Hs.334485	6.1	781 5390
	451598	ESTS	N29102	Hs.7965B	6.1	4241 8093
25	434326	reticulon 2	NM_005619		6.0	3043 3044 7073
2,5	453859 417944	myogenic factor 6 (herculin) collagen, type V, alpha 2	NM_002469		6.0	4451 4452 8267
	417389	midkine (neurite growth-promoting facto	AU077196 BE260964	Hs.82985	6.0	1172 5693
	452063	ESTs, Weakly similar to TWST_HUMAN		Hs.82045 Hs.32366	6.0	1109 5647
	449717	cerebral cell adhesion molecule	AB040935	Hs.23954	6.0 6.0	4281 8124 4110 4111 7989
30	412755	ESTs, Weakly similar to P4HA_HUMAN	PROL BE1443	106 Hs.179891	160	637 5274
	421823	ESTs	N40850	Hs.28625	6.0	1600 6011
	426935	collagen, type I, alpha 1	NM_000088		6.0	2288 2289 6498
	424734	ESTs	Al217685	Hs.96844	6.0	1992 6293
35	408349	homeo box C10	BE546947	Hs.44276	6.0	213 4949
33	452360	ESTs	Al742082	Hs.98539	6.0	4321 8158
	449238	muscle-specific RING-finger protein 3	AA428229	Hs.331561	5.9	4075 7957
	431457 420067	integrin, alpha 11	NM_012211	Hs.2 56297	5.9	2787 2788 6870
	412472	Homo sapiens mRNA; cDNA DKFZp5640 ESTs			5.9	1414 5876
40	408486	sodium channel, voltage-gated, type IV,	AW975398 L04236	Hs.293836	5.9	593 5240
	421155	lysyl oxidase	H87879	Hs.46038 Hs.102267	5.9 5.9	228 229 4960 1512 5950
	429823	ESTs	AA459443	Hs.181400	5.9	2613 6744
	439751	Homo sapiens mRNA full length insert cE		Hs.50794	5.9	3428 7411
4.5	415655	ESTs	W05433	Hs.352293	5.9	932 5506
45	452223	hypothetical protein MGC2827	AA425467	Hs.8035	5.8	4302 8142
	430223	nephroblastoma overexpressed gene	NM_002514	Hs.2 35935	5.8	2661 2662 6779
	415656	ESTs	W84346	Hs.84673	5.8	933 5507
	417045	Homo sepiens ORF1	F01180	Hs.332030	5.8	1066 5610
50	422667 415702	ESTS	H25642	Hs.132821	5.8	1723 6102
50	435101	gb:HSPD18414 HM3 Homo sapiens cDN ESTs	A CION F288// A1743156		5.8	942 5515
	410108	OSBP-related protein 6	AA081659	Hs.131064 Hs.318775	5.8 5.8	3106 7124
	429359	matrix metalloproteinase 14 (membrane-i		Hs.2399	5.8	423 5108 2551 6702
	403081	NM_003319*:Homo sapiens titin (TTN), n	nR		5.7	4704
55	442117	ESTs; hypothetical protein for IMAGE:44		Hs.128899	5.7	3551 7523
	417027	triadin	AA192306	Hs.23926	5.7	1062 5607
	442295	Homo sapiens cDNA FLJ11469 fis, clone		Hs.224398	5.7	3555 7527
	445417	a disintegrin-like and metalloprotease	AK001058	Hs.12680	5.7	3766 7705
60	410295 448595	nldogen (enactin) KIAA0644 gene product	AA741357	Hs.356624	5.7	450 5127
00	450506	fibroblast activation protein, alpha	AB014544 NM_004460	Hs.21572	5.7	4015 4016 7910
	414482	endothelin receptor type A	S57498	Hs.76252	5.7 5.7	4170 4171 8037 824 825 5426
	411021	titin	F00055	Hs.172004	5.7	508 5169
~-	453514	ESTs	AA036675	Hs.50918	5.7	4424 8245
65	452023	KIAA1173 protein	AB032999	Hs.27566	5.7	4271 4272 8118
	409944	four and a half LIM domains 3	BE297925	Hs.57687	5.6	399 5090
	439979	hypothetical protein FLJ10430	AW600291	Hs.6823	5.6	3442 7424
	414359	cadherin 11, type 2, OB-cadherin (osteo	M62194	Hs.75929	5.6	808 5413
70	437446	ESTs, Moderately similar to CA1C RAT C		Hs.101302	5.6	3264 7259
70	407080 429415	myosin, heavy polypeptide 8, skeletal m procollagen C-endopeptidase enhancer	Z38133	Hs.113973	5.6	105 106 4858
	411396	ESTs	NM_002593 C04646		5.5	2557 2558 6706
	401566	NM_005159:Homo saplens actin, alpha, o		Hs.85428	5.5 5.5	533 5191 4654
	453983	ESTs	H94997	Hs.16450	5.5	4476 8286
75	420190	hypothetical protein EST00098	AI816209	Hs.95867	5.5	142B 5888
	447253	ESTs	AW250196	Hs.103512	5.5	3907 7822
	457458	ESTs	R14439	Hs.209194	5.5	4553 8352
	406519	C10001858:gi 6679124 ref NP_032759.1			5.5	4808
0Λ	443184	ESTs	AI638728	Hs.135159	5.5	3607 7574
80	425863	Human unidentified mRNA, partial sequer		Hs.159901	5.4	2152 6404
	446904 448520	DKFZP434H204 protein doublecortin and CaM kinase-like 1	AL110226	Hs.16441	5.4	3875 3876 7795
	448520 449700	paraneoplastic antigen	AB002367	Hs.21355	5.4	4010 4011 7907
_	452613	ESTs	L02867 AA461599	Hs.78358	5.4 5.4	4108 4109 7988
85	451917	Homo sapiens unknown mRNA	AW391351	Hs.23459 Hs.50820	5.4 5.4	4337 8171 4261 8108
	439039	ESTs	AI656707	Hs.48713	5.4 5.4	3373 7356
						JUL 1000

	446142	ESTs	Al754693	Hs.145968	5.4	3820 7748
	422087	matrix metalloproteinase 2 (gelatinase	X58968	Hs.111301	5.4	1641 6040
	414002	FBJ murine osteosarcoma viral oncogene			5.4	763 764 5375
5	430713 421251	eukaryotic translation elongation facto	AA351647	Hs.2642	5.4	2726 6824
,	406705	enigma (LIM domain protein) myosin, heavy polypepiide 8, skeletal m	Z28913 Z38133	Hs.102948 Hs.113973	5.4 5.4	1521 5957
••	411000	ESTs, Weakly similar to S38383 SEB4B		Hs.201619	5.4	105 106 4827 505 5167
	404977	Insulin-like growth factor 2 (somatomed			5.3	4766
10	427863	MLL septin-like fusion	AF189712	Hs.181002	5.3	2378 2379 6567
10	413031	phosphofructokinase, muscle	BE515051	Hs.75160	5.3	671 5304
	416982 453817	creatine kinase, mitochondrial 2 (sarco	J05401	Hs.80691	5.3	1055 1056 5602
	424330	ESTs Homo saptens cDNA FLJ13596 fis, clone	AW755253	Hs.379636	5.3 5.3	4442 8260
	407826	calpain 3, (p94)	AA128423	Hs.40300	5.3	- 1936 6253 167 4911
15	414285	ESTs	AA312914	Hs.71719	5.3	798 5405
	426485	platelet-derived growth factor receptor	NM_006207		5.3	2238 2239 6465
	445875	Homo sapiens clone 24453 mRNA seque			5.3	3801 7731
	448106 425292	ESTs	AI800470	Hs.171941	5.2	3977 7879
20	414175	37 kDa leucine-rich repeat (LRR) proteit hypothetical protein DKFZp761D112	NM_005824 Al308876		5.2	2083 2084 6359
	417405	ESTs	W28657	Hs.103849 Hs.5307	5.2 5.2	786 5394 1112 5649
	409172	ESTs	Z99399	Hs.122593	5.2	318 5031
	422627	transforming growth factor, beta-induce	BE336857	Hs.118787	5.2	1715 6097
25	414555	phospholipase A2, group IIA (platelets,	N98569	Hs.76422	5.2	830 5431
25	426457	chimerin (chimaerin) 1	AW894667	Hs.380138	5.2	2229 6459
	400419 405681	Target C3000593*:gi]10120319jembjCAC08185.	AF084545		5.2	22 23 4626
	428981	ESTs, Weakly similar to ALU2_HUMAN A		He 93135	5.2 - ·5.2	4793 2497 6660
	453271	ESTs	AA903424	Hs.6786	5.2	4409 8232
30	439920	neurotrimin	H05430	Hs.288433	5.2	3439 7421
	440652	ESTs	Al216751	Hs.143977	5.1	3478 7456
	435793	KIAA1313 protein	AB037734	Hs.4993	5.1	3152 3153 7162
	416084 437395	deoxythymidylate kinase (thymidylate ki hypothetical protein DKFZp762M136	L16991	Hs.79006	5.1	972 973 5540
35	412564	cardiac ankyrin repeat protein	AL365408 X83703	Hs.351747 Hs.355934	5.1 5.1	3258 3259 7254
	415705	coiln	U06632	Hs.966	5.1	606 607 5251 943 944 5516
	414683	hypothetical protein MGC12702	S78296	Hs.76888	5.1	846 847 5444
	411573	KIAA1077 protein	AB029000	Hs.70823	5.1	542 543 5199
40	447321	Homo sapiens cDNA FLJ14028 fis, clone			5.1	3915 7827
+ 0	452683 427876	progesterone membrane binding protein ESTs	AJ089575	Hs.374574	5.1	4341 8175
	437681	Homo sapiens, Similar to TEA domain far	Al494291 n Al207958	Hs.369171 Hs.166556	5.1 5.1	2381 6569 3280 7273
	417308	KIAA0101 gene product	H60720	Hs.81892	5.1	1094 5634
45	419235	neurotrimin -	AW470411	Hs.288433	5.1	1320 5804
45	443164	ESTs, Weakly similar to ALU1_HUMAN A		Hs.55780	5.1	3606 7573
	427647 409826	Homo sapiens cDNA FLJ20653 fis, clone		Hs.180059	5.0	2354 6548
	418532	hypothetical protein FLJ23412 neurotrophic tyrosine kinase, receptor,	AW501112 F00797	Hs.353013	5.0	388 5082
	443883	serine (or cysteine) proteinase inhibit	AA114212	Hs.374321 Hs.9930	5.0 5.0	1252 5753 3653 7614
50	439627	hypothetical protein FLJ21841	BE621702	Hs.29076	5.0	3411 7394
	425256	collapsin response mediator protein 1	BE297611	Hs.155392	5.0	2074 6352
	428560	ESTs, Weakly similar to B47411 ADPribos		Hs.98669	5.0	2453 6627
	430147 427418	hatry/enhancer-of-split related with YR	R60704	Hs.234434	5.0	2652 6773
55	426413	LAT1-3TM protein gb:EST90805 Synovial sarcoma Homo sa	AA402587	Hs.356667	5.0	2327 6527
	410036	calsequestrin 2 (cardiac muscle)		Hs.57975	5.0 5.0	2219 6453 412 5100
	417068	hypothetical protein MGC3169		Hs.85852	5.0	1069 5613
	416729	Ras-related associated with diabetes		Hs.1027	5.0	1026 1027 5581
60	433839	ESTs, Weakly similar to ALU1_HUMAN A		Hs.146070	5.0	3008 7043
UU	453874 425247	collagen, type XIV, alpha 1 (undulin) matrix metalloproteinase 11 (stromelysi		Hs.36131	5.0	4456 8270
	413278	Interferon-stimulated protein, 15 kDa	NM_005940 1 BE563085	Hs.833	5.0 4.9	2072 2073 6351 695 5322
	416208	ESTs, Weakly similar to MUC2_HUMAN N	/UCI AW2911	68 Hs.41295	4.9	981 5548
C 5	424893	Homo sapiens cDNA FLJ13303 fis, clone	O AW295112	Hs.153648	4.9	2020 6313
65	457211	ESTs, Weakly similar to S51797 vasodila		Hs.130093	4.9	4549 8344
	453341 433012	adenyiyi cyclase-associated protein 2		Hs.296341	4.9	4414 8237
•	429524	ATX1 (antioxidant protein 1, yeast) hom KIAA1211 protein	NM_004045 1 AB033037	Hs.2 /9910 Hs.205293	4.9	2925 2926 6978
	422599	non-metastatic cells 1, protein (NM23A)		Hs.118638	4.9 4.9	2577 2578 6720 1710 6092
70	407824	Homo sapiens cDNA FLJ14388 fis, clone		Hs.9812	4.9	166 4910
	434398	serum-inducible kinase (SNK)		Hs.3838	4.9	3052 7079
	458247	ESTs		Hs.164170	4.9	4572 8368
	417089 447436	Homo sapiens cDNA: FLJ21909 fis, clone Homo sapiens cDNA: FLJ21449 fis, clone		Hs.18612	4.9	1077 5619
75	454024	hypothetical protein FLJ23403		Hs.18593 Hs.293907	4.9	3928 7837
	433447	neuronal pentraxin II		ris.293907 Hs.3281	4.9 4.8	4481 8290 2980 2981 7021
	434747	ESTs		Hs.372254	4.8	3073 7097
	429707	matrix metalloproteinase 23B	W76631	Hs.211819	4.8	2606 6738
80	438964	ESTs	AA148982	Hs.29068	4.8	3371 7354
50	435977 435367	brain-specific membrane-anchored protei for muscle specific ring finger 2		Hs.5012	4.8	3166 7174
	433367	ESTs		Hs.85524 Hs.124747	4.8 4.8	3119 7135 3417 7400
	426919			Hs.166109	4.8	2284 6495
0=	450676	ESTs		Hs.279727	4.8	4180 8045
85	419081	ESTs	A1798863	Hs.87191	4.8	1299 5788
	429139	ESTs	F09092	Hs.66087	4.8	2517 6675

	446422	ECT	A1CC0004	11-04000	40	4004 5500
	416433 419250	ESTs U5 snRNP-specific protein, 116 kD	A1658904	Hs.84673	4.8	1004 5566 4330 5886
	433122	ESTs	AW770185	Hs.356066	4.8	1322 5806
	410687	lysyl oxidase-like 1	AB019391 U24389	Hs.58049 Hs.65436	4.8 4.8	2941 6991 485 486 5153
5	432304	ESTs	AA932186	Hs.69297	4.8	2863 6927
	413132	protein kinase (cAMP-dependent, catalyt			4.8	683 684 5314
	417376	LIM protein (similar to rat protein kin	AA253314	Hs.154103	4.7	1107 5645
	438085	ESTs	R52518	Hs.7967	4.7	3299 7292
10	428309	cellular retinoic acid-binding protein	M97815	Hs.183650	4.7	2427 2428 6608
10	421778	actin related protein 2/3 complex, subu	AA428000	Hs.283072	4.7	1591 6003
	445363	tubulin-specific chaperone d	NM_005993		4.7	3762 3763 7702
	429930	ESTs	AI580809	Hs.352364	4.7	2623 6751
	421913 419968	osteoglycin (osteoinductive factor, mim	Al934365	Hs.109439	4.7	1611 6020
15	422110	interteukin 6 (interferon, beta 2)	X04430	Hs.93913	4.7	1399 1400 5866
13	402331	secreted protein, acidic, cystelne-rich C19001390;gi]399116jspjP13688jBGP1_l	Al376736	Hs.121555	4.7 4.7	1648 6045
	413482	ESTs	AA129869	Hs.197143	4.7	4679 727 5344
	425397	topoisomerase (DNA) II alpha (170kD)	J04088	Hs.156346	4.7	2099 2100 6369
	412926	macrophage myristoylated alanine-rich C		Hs.75061	4.7	655 5290
20	430643	MEGF10 protein	AW970065	Hs.287425	4.7	2717 6817
	445669	ESTs	Al570830	Hs.174870	4.7	3789 7721
	423548	hypothetical protein FLJ20449	AK000456	Hs.130546	4.7	1833 1834 6184
	414961	myosin-binding protein H	U27266	Hs.927	4.7	896 897 5479
25	408491	ESTs	A1088063	Hs.7882	4.7	230 4961
25	421016		AA5045B3	Hs.101047	4.6	1497 5937
	411411	ESTs, Weakly similar to KIAA1330 protei		Hs.55950	4.6	537 5194
	451292 422737	KIAA1295 protein	AB037716	Hs.26204	4.6	4221 4222 8079
	410628	collagen, type III, alpha 1 (Ehlers-Dan ESTs, Moderately similar to similar to	M26939 Al131408	Hs.119571	4.6	1730 1731 6108
30	412560	CCR4-NOT transcription complex, subunit		Hs.68756	4.6 4.6	483 5151
50	441389	endocytic receptor (macrophage mannose		Hs.350495 Hs.7835	4.6	602 5248 3514 3515 7488
	440650	Human DNA sequence from PAC 75N13			4.6	3477 7455
	453935	ESTs	Al633770	Hs.42572	4.6	4470 8281
	407228	hemoglobin, beta	M25079	Hs.155376	4.6	124 125 4876
35	441611	ESTs	AW590829	Hs.133463	4.6	3528 7500
	450358	coronin, actin-binding protein, 2B	AB010098	Hs.24907	4.6	4157 4158 8027
	456816	hypothetical protein FLJ10647	AK001509	Hs.144391	4.6	4531 4532 8334
	424687	matrix metalloproteinase 9 (gelatinase	J05070	Hs.151738	4.6	1986 1987 6289
40	422648	Melanoma associated gene	D86983	Hs.118893	4.6	1720 1721 6100
40	453041	Homo sapiens cDNA FLJ11918 fis, clone	H A1680737	Hs.289068	4.6	4384 8211
	421848	collagen, type VI, alpha 1	X15880	Hs.108885	4.6	1602 1603 6013
•	451195	mesenchyme homeo box 1	U10492	Hs.438	4.6	4218 4219 8077
٠	451195 429505	mesenchyme homeo box 1 a disintegrin and metalloproteinase dom	U10492 AW820035	Hs.438 Hs.278679	4.6 4.6	4218 4219 8077 2576 6719
45	451195 429505 424162	mesenchyme homeo box 1 a disintegrin and metalloproteinase dom ESTs, Weakly similar to ALU2_HUMAN A	U10492 AW820035 LU AA336229	Hs.438 Hs.278679	4.6 4.6 Hs.93135	4218 4219 8077 2576 6719 4.5 1907 6235
45	451195 429505 424162 424800	mesenchyme homeo box 1 a disintegrin and metalloproteinase dom ESTs, Weakly similar to ALU2_HUMAN A MyoD family Inhibitor	U10492 AW820035 LU AA336229 AL035588	Hs.438 Hs.278679 Hs.153203	4.6 4.6 Hs.93135 4.5	4218 4219 8077 2576 6719 4.5 1907 6235 2002 2003 6300
45	451195 429505 424162 424800 427809	mesenchyme homeo box 1 a disintegrin and metalloproteinase dom ESTs, Weakly similar to ALU2_HUMAN A MyoD family Inhibitor lipoprotein lipase	U10492 AW820035 LU AA336229 AL035588 M26380	Hs.438 Hs.278679 Hs.153203 Hs.180878	4.6 4.6 Hs.93135 4.5 4.5	4218 4219 8077 2576 6719 4.5 1907 6235 2002 2003 6300 2373 6562
45	451195 429505 424162 424800 427809 446681	mesenchyme homeo box 1 a disintegrin and metalloproteinase dom ESTs, Weakly similar to ALU2_HUMAN A MyoD family Inhibitor lipoprotein lipase kendrin	U10492 AW820035 LU AA336229 AL035588 M26380 AJ003624	Hs.438 Hs.278679 Hs.153203 Hs.180878 Hs.15896	4.6 4.6 Hs.93135 4.5 4.5 4.5	4218 4219 8077 2576 6719 4.5 1907 6235 2002 2003 6300 2373 6562 3869 7789
	451195 429505 424162 424800 427809	mesenchyme homeo box 1 a disintegrin and metalloproteinase dom ESTs, Weakly similar to ALU2_HUMAN A MyoD family inhibitor lipoprotein lipase kendrin elastin (supravalvular aortic stenosis,	U10492 AW820035 LU AA336229 AL035588 M26380 AJ003624 U77846	Hs.438 Hs.278679 Hs.153203 Hs.180878 Hs.15896 Hs.9295	4.6 4.6 Hs.93135 4.5 4.5 4.5 4.5	4218 4219 8077 2576 6719 4.5 1907 6235 2002 2003 6300 2373 6562 3869 7789 3619 3620 7585
45	451195 429505 424162 424800 427809 446681 443402	mesenchyme homeo box 1 a disintegrin and metalloproteinase dom ESTs, Weakly similar to ALU2_HUMAN A MyoD family Inhibitor lipoprotein lipase kendrin	U10492 AW820035 LU AA336229 AL035588 M26380 AJ003624 U77846	Hs.438 Hs.278679 Hs.153203 Hs.180878 Hs.15896 Hs.9295	4.6 4.6 Hs.93135 4.5 4.5 4.5 4.5 4.5	4218 4219 8077 2576 6719 4.5 1907 6235 2002 2003 6300 2373 6562 3869 7789 3619 3620 7585 2483 2484 6650
	451195 429505 424162 424800 427809 446681 443402 428862	mesenchyme homeo box 1 a disintegrin and metalloproteinase dom ESTs, Weakly similar to ALU2_HUMAN A MyoD family inhibitor lipoprotein lipase kendrin elastin (supravalvular aortic stenosis, SRY (sex determining region Y)-box 9 (c	U10492 AW820035 LU AA336229 AL035588 M26380 AJ003624 U77846 NM_000346	Hs.438 Hs.278679 Hs.153203 Hs.180878 Hs.15896 Hs.9295 Hs.2 316	4.6 4.6 Hs.93135 4.5 4.5 4.5 4.5	4218 4219 8077 2576 6719 4.5 1907 6235 2002 2003 6300 2373 6562 3869 7789 3619 3620 7585
	451195 429505 424162 424800 427809 446681 443402 42862 420486 409553 424870	mesenchyme homeo box 1 a disintegrin and metalloproteinase dom ESTs, Weakly similar to ALU2_HUMAN A MyoD family Inhibitor lipoprotein lipase kendrin etastin (supravalvular aortic stenosis, SRY (sex determining region Y)-box 9 (c caveolin 3 semaphortn Y ESTs	U10492 AW820035 LU AA336229 AL035588 M26380 AJ003624 U77846 NM_000346 AF036365 AF055020 T15545	Hs.438 Hs.278679 Hs.153203 Hs.180878 Hs.15896 Hs.9295 Hs.2316 Hs.23316 Hs.54937 Hs.24624	4.6 4.6 Hs.93135 4.5 4.5 4.5 4.5 4.5 4.5	4218 4219 8077 2576 6719 4.5 1907 6235 2002 2003 6300 2373 6562 3869 7789 3619 3620 7585 2483 2484 6650 1456 1457 5909
	451195 429505 424162 424800 427809 446681 443402 428862 420486 409553 424870 452036	mesenchyme homeo box 1 a disintegrin and metalloproteinase dom ESTs, Weakly similar to ALU2_HUMAN A MyoD family inhibitor lipoprotein lipase kendrin elastin (supravalvular aortic stenosis, SRY (sex determining region Y)-box 9 (c caveolin 3 semaphortn Y ESTs sema domain, seven thrombospondin repi	U10492 AW820035 LU AA336229 AL035588 M26380 AJ003624 U77846 NM_000346 AF035365 AF055020 T15545 az NM_00396	Hs.438 Hs.278679 Hs.153203 Hs.153203 Hs.180878 Hs.15896 Hs.9295 Hs.2 316 Hs.98303 Hs.54937 Hs.54937 Hs.244624 6 Hs.27621	4.6 4.6 Hs.93135 4.5 4.5 4.5 4.5 4.5 4.5 4.5 4.5 4.5 4.	4218 4219 8077 2576 6719 4.5 1907 6235 2002 2003 6300 2373 6562 3869 7789 3619 3620 7585 2483 2484 6650 1456 1457 5909 359 360 5060
50	451195 429505 424162 424800 427809 446681 443402 428862 420486 409553 424870 452036 422562	mesenchyme homeo box 1 a disintegrin and metalloproteinase dom ESTs, Weakly similar to ALU2_HUMAN A MyoD family inhibitor lipoprotein lipase kendrin elastin (supravalvular aortic stenosis, SRY (sex determining region Y)-box 9 (c caveolin 3 semaphortn Y ESTs sema domain, seven thrombospondin rep AE-binding protein 1	U10492 AW820035 LU AA336229 AL035588 M26380 AJ003624 U77846 NM_000346 AF035365 AF055020 T15545 28 NM_00396 AI962050	Hs.438 Hs.278679 Hs.153203 Hs.153203 Hs.180878 Hs.15896 Hs.9295 Hs.2 316 Hs.98303 Hs.54937 Hs.244624 6 Hs.27621 Hs.118397	4.6 4.6 Hs.93135 4.5 4.5 4.5 4.5 4.5 4.5 4.5 4.5 4.5 4.	4218 4219 8077 2576 6719 4.5 1907 6235 2002 2003 6300 2373 6562 3869 7789 3619 3620 7585 2483 2484 6650 1456 1457 5909 359 360 5060 2014 6308 4273 4274 8119 1700 6085
	451195 429505 424162 424800 427809 446681 443402 428862 420486 409553 424870 452036 422562 422424	mesenchyme homeo box 1 a disintegrin and metalloproteinase dom ESTs, Weakly similar to ALU2_HUMAN A MyoD family inhibitor lipoprotein lipase kendrin elastin (supravalvular aortic stenosis, SRY (sex determining region Y)-box 9 (c caveolin 3 semaphortn Y ESTs sema domain, seven thrombospondin repr AE-binding protein 1 prostate differentiation factor	U10492 AW820035 LU AA336229 AL035588 M26380 AJ003624 U77846 NM_000346 AF035365 AF055020 T15545 22 NM_00396 AI962060 AI186431	Hs.438 Hs.278679 9 - 18.153203 Hs.180878 Hs.15896 Hs.9295 Hs.2316 Hs.98303 Hs.54937 Hs.244624 6 Hs.27621 Hs.118397 Hs.296638	4.6 4.6 Hs.93135 4.5 4.5 4.5 4.5 4.5 4.5 4.5 4.5 4.5 4.	4218 4219 8077 2576 6719 4.5 1907 6235 2002 2003 6300 2373 6562 3869 7789 3619 3620 7585 2483 2484 6650 1456 1457 5909 359 360 5060 2014 6308 4273 4274 8119 1700 6085 1681 6070
50	451195 429505 424162 424800 427809 446681 443402 428862 420486 409553 424870 452036 422562 422424 438704	mesenchyme homeo box 1 a disintegrin and metalloproteinase dom ESTs, Weakly similar to ALU2_HUMAN A MyoD family Inhibitor lipoprotein lipase kendrin elastin (supravalvular aortic stenosis, SRY (sex determining region Y)-box 9 (c caveolin 3 semaphorin Y ESTs sema domain, seven thrombospondin rep AE-binding protein 1 rostate differentiation factor ESTs	U10492 AW820035 LU AA336229 AL035588 M26380 AJ003624 U77846 NM_000346 AF036365 AF055020 T15545 aa NM_00396 AJ962050 AJ186431 AJ186431 AJ435060	Hs.438 Hs.278679 9 Hs.153203 Hs.180878 Hs.15896 Hs.9295 Hs.2 316 Hs.98303 Hs.54937 Hs.244624 6 Hs.27621 Hs.118397 Hs.296638 Hs.6705	4.6 4.6 Hs.93135 4.5 4.5 4.5 4.5 4.5 4.5 4.5 4.5 4.5 4.	4218 4219 8077 2576 6719 4.5 1907 6235 2002 2003 6300 2373 6562 3869 7789 3619 3620 7585 2483 2484 6650 1456 1457 5909 359 360 5060 2014 6308 4273 4274 8119 1700 6085 1681 6070 3349 7334
50	451195 429505 424162 424800 446681 443402 428662 420486 409553 424870 452036 422562 422424 438704 424634	mesenchyme homeo box 1 a disintegrin and metalloproteinase dom ESTs, Weakly similar to ALU2_HUMAN A MyoD family Inhibitor lipoprotein lipase kendrin elastin (supravalvular aortic stenosis, SRY (sex determining region Y)-box 9 (c caveolin 3 semaphortn Y ESTs sema domain, seven thrombospondin rep AE-binding protein 1 prostate differentiation factor ESTs cartilage intermediate layer protein, n	U10492 AW820035 LU AA336229 AL035588 M26380 AJ003624 U77846 NM_000346 AF036365 AF055020 T15545 BA NM_00396 AI962060 AI186431 AI186431 AI435060 NM_003613	Hs.438 Hs.278679 Hs.153203 Hs.153203 Hs.180878 Hs.15896 Hs.9295 Hs.2 316 Hs.98303 Hs.54937 Hs.244624 6 Hs.27621 Hs.118397 Hs.296638 Hs.6705 Hs.1 51407	4.6 4.6 Hs.93135 4.5 4.5 4.5 4.5 4.5 4.5 4.5 4.5 4.5 4.	4218 4219 8077 2576 6719 4.5 1907 6235 2002 2003 6300 2373 6562 3869 7789 3619 3620 7585 2483 2484 6650 1456 1457 5909 359 360 5060 2014 6308 4273 4274 8119 1700 6085 1681 6070 3349 7334 1981 1982 6285
50 55	451195 429505 424162 424800 427809 446681 443402 428862 420486 409553 424870 452036 422562 422424 438704 424634 437117	mesenchyme homeo box 1 a disintegrin and metalloproteinase dom ESTs, Weakly similar to ALU2_HUMAN A MyoD family inhibitor lipoprotein lipase kendrin elastin (supravalvular aortic stenosis, SRY (sex determining region Y)-box 9 (c caveolin 3 semaphorin Y ESTs sema domain, seven thrombospondin rep AE-binding protein 1 prostate differentiation factor ESTs cartilage intermediate layer protein, n ESTs	U10492 AW820035 LU AA336229 AL035588 M26380 AJ003624 U77846 NM_000346 AF055020 T15545 ≅ NM_00396 AI962060 AI968431 AI435060 NM_003613 ALD49256	Hs.438 Hs.278679 Hs.153203 Hs.153203 Hs.15896 Hs.9295 Hs.2 316 Hs.98303 Hs.54937 Hs.54937 Hs.244624 6 Hs.27621 Hs.118397 Hs.296638 Hs.6705 Hs.1 51407 Hs.12593	4.6 4.8 Hs.93135 4.5 4.5 4.5 4.5 4.5 4.5 4.5 4.5 4.5 4.	4218 4219 8077 2576 6719 4.5 1907 6235 2002 2003 6300 2373 6562 3869 7789 3619 3620 7585 2483 2484 6650 1456 1457 5909 359 360 5060 2014 6308 4273 4274 8119 1700 6085 1681 6070 3349 7334 1981 1982 6285 3235 7234
50 55	451195 429505 424162 424800 427809 446681 443402 428862 420486 409553 424870 452036 422562 422424 438704 424634 437117 457411	mesenchyme homeo box 1 a disintegrin and metalloproteinase dom ESTs, Weakly similar to ALU2_HUMAN A MyoD family Inhibitor lipoprotein lipase kendrin elastin (supravalvular aortic stenosis, SRY (sex determining region Y)-box 9 (c caveolin 3 semaphortn Y ESTs sema domain, seven thrombospondin repr AE-binding protein 1 prostate differentiation factor ESTs cartilage Intermediate layer protein, n ESTs Iroquots-class homeobox protein IRX2	U10492 AW820035 LU AA336229 AL035588 M26380 AJ003624 U77846 NM_000346 AF035365 AF055020 T15545 228 NM_00396 AI962060 AI186431 AI435060 NM_003613 AL049256 AW972881	Hs.438 Hs.278679 9 — Hs.153203 Hs.180878 Hs.15896 Hs.9295 Hs.2316 Hs.98303 Hs.54937 Hs.244624 66 Hs.27621 Hs.118397 Hs.296638 Hs.6705 Hs.15407 Hs.12593 Hs.172593	4.6 4.6 Hs.93135 4.5 4.5 4.5 4.5 4.5 4.5 4.5 4.5 4.5 4.	4218 4219 8077 2576 6719 4.5 1907 6235 2002 2003 6300 2373 6562 3869 7789 3619 3620 7585 2483 2484 6650 1456 1457 5909 359 360 5060 2014 6308 4273 4274 8119 1700 6085 1681 6070 3349 7334 1981 1982 6285 3235 7234 4552 8349
50	451195 429505 424162 424800 427809 446681 443402 428862 420486 409553 424870 452036 422562 422424 438704 424634 437117	mesenchyme homeo box 1 a disintegrin and metalloproteinase dom ESTs, Weakly similar to ALU2_HUMAN A MyoD family inhibitor lipoprotein lipase kendrin elastin (supravalvular aortic stenosis, SRY (sex determining region Y)-box 9 (c caveolin 3 semaphorin Y ESTs sema domain, seven thrombospondin rep AE-binding protein 1 prostate differentiation factor ESTs cartilage intermediate layer protein, n ESTs	U10492 AW820035 LU AA336229 AL035588 M26380 AJ003624 U77846 NM_000346 AF055020 T15545 ≅ NM_00396 AI962060 AI968431 AI435060 NM_003613 ALD49256	Hs.438 Hs.278679 9 Hs.153203 Hs.180878 Hs.15896 Hs.9295 Hs.2316 Hs.98303 Hs.54937 Hs.244624 6 Hs.27621 Hs.118397 Hs.1296638 Hs.6705 Hs.1 51407 Hs.122593 Hs.12593 Hs.276507 Hs.122593	4.6 4.6 Hs.93135 4.5 4.5 4.5 4.5 4.5 4.5 4.5 4.5 4.5 4.	4218 4219 8077 2576 6719 4.5 1907 6235 2002 2003 6300 2373 6562 3869 7789 3619 3620 7585 2483 2484 6650 1456 1457 5909 359 360 5060 2014 6308 4273 4274 8119 1700 6085 1681 6070 3349 7334 1981 1982 6285 3235 7234 4552 8349 1769 6135
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5055606570	451195 429505 424162 424800 427809 446681 434802 428862 420486 409553 424870 452036 422562 422424 438704 424634 437117 457411 423013 441689 416391 419648 447205 451820 439755 451820 439755 441894 424066 412563 446619 409182 453079 417259 424262 413333 408443 422809 420895	mesenchyme homeo box 1 a disintegrin and metalloproteinase dom ESTs, Weakly similar to ALU2_HUMAN A MyoD family inhibitor lipoprotein lipase kendrin elastin (supravalvular aortic stenosis, SRY (sex determining region Y)-box 9 (c caveolin 3 semaphortn Y ESTs sema domain, seven thrombospondin repi AE-binding protein 1 prostate differentiation factor ESTs cratilage intermediate layer protein, n ESTs Iroquots-class homeobox protein IRX2 secreted modular calcium-binding protei ESTs mesoderm specific transcript (mouse) ho thyroid hormone responsive SPOT14 (rat) ESTs, Moderately similar to T17372 plas ESTs B7 homolog 3 setectin E (endothelial adhesion molecu ESTs thrombospondin 2 ESTs, Weakly similar to 138022 hypothet ESTs, Weakly similar to 138022 hypothet secreted phosphoprotein 1 (osteopontin, ESTs LIM protein (similar to rat protein kin chondroltin sulfate proteoglycan 2 (ver DKFZP564C103 protein fibroblast growth factor 1 (acidic) ESTs hypothetical protein FLJ10549 gb;yw23b03.r1 Morton Fetal Cochlea Horn	U10492 AW820035 LU AA336229 AL035588 M26380 AL003624 U77846 NM_000346 AF035365 AF055020 T15545 22 NM_00396 A1962060 A1186431 AL049256 AW972881 AW972881 AW972881 AW972881 AW972881 AW972881 AU9256 AW972881 AU975443 AL123705 AW972881 AW972881 AW972881 AW972881 AW972881 AW972881 AW972881 AW972881 AW972881 AW972881 AW972881 AW972881 AW748482 AA296520 AA551196 L12350 Z99348 Z25372 AU076643 AA064970 AW160480 AW903838 BE294493 M74028 N33937 AK001379 IN 188685	Hs.438 Hs.278679 Hs.153203 Hs.180878 Hs.15896 Hs.9295 Hs.2316 Hs.98303 Hs.54937 Hs.224624 64 Hs.118397 Hs.224624 Hs.118397 Hs.226638 Hs.6705 Hs.1289068 Hs.6705 Hs.1289068 Hs.77873 Hs.289068 Hs.7873 Hs.11006 Hs.19224 Hs.11026 Hs.19248 Hs.7873 Hs.11036 Hs.19248 Hs.7873 Hs.11036 Hs.11261 Hs.350621 Hs.313 Hs.376137 Hs.154103 Hs.14058 Hs.75297 Hs.10336 Hs.11028	4.6 4.6 Hs.93135 4.5 4.5 4.5 4.5 4.5 4.5 4.5 4.5 4.5 4.	4218 4219 8077 2576 6719 4.5 1907 6235 2002 2003 6300 2373 6562 3869 7789 3619 3620 7585 2483 2484 6650 1456 1457 5909 359 360 5060 2014 6308 4273 4274 8119 1700 6085 1681 6070 3349 7334 1981 1982 6285 3235 7234 4552 8349 1769 6135 3533 7505 999 5562 1366 5839 3900 7816 4260 8107 3430 7413 1290 5781 2878 6940 1596 1597 6008 1891 6223 605 5250 3861 7782 320 5033 4387 8214 1092 5532 1924 6245 703 5327 222 4956 1741 1742 6115 1489 5932
505560657075	451195 429505 424162 424800 427809 446681 443402 428862 420486 409553 424870 452036 422562 422424 438704 424634 437117 423013 441689 416391 419648 447205 451820 439755 451820 439755 418994 432503 421814 424066 412563 446619 409182 453079 417259	mesenchyme homeo box 1 a disintegrin and metalloproteinase dom ESTs, Weakly similar to ALU2_HUMAN A MyoD family inhibitor lipoprotein lipase kendrin elastin (supravalvular aortic stenosis, SRY (sex determining region Y)-box 9 (c caveolin 3 semaphortn Y ESTs sema domain, seven thrombospondin repi AE-binding protein 1 prostate differentiation factor ESTs cartilage intermediate layer protein, n ESTs Iroquots-class homeobox protein IRX2 secreted modular calcium-binding protei ESTs Browed homeobox protein lipx2 secreted modular calcium-binding protei ESTs Bromotog 3 selectin E (endothelial adhesion molecu ESTs thrombospondin 2 ESTs, Weakly similar to 138022 hypothet ESTs, Weakly similar to 138022 hypothet secreted phosphoprotein 1 (osteopontin, ESTs LIM protein (similar to rat protein kin chondroltin sulfate proteoglycan 2 (ver DKFZP564C103 protein fibroblast growth factor 1 (acidic) ESTs byyov23b03,r1 Morton Fetal Cochlea Hom paired-like homeodomain transcription f	U10492 AW820035 LU AA336229 AL035588 M26380 AJ003624 U77846 NM_000346 AF035365 AF055020 T15545 22 NM_00396 AI962050 AI186431 AI435060 NM_003613 AL049256 AW972881 AW972881 AW972881 AW972881 AW972881 AW972881 AU972861 BE617015 AW058357 AW748482 AA296520 AA551196 L12350 Z99348 Z25372 AU076643 AA064970 AW160480 AW903838 BE294493 M74028 N33937 AK001379 D H88685 H13139	Hs.438 Hs.278679 Hs.153203 Hs.180878 Hs.15896 Hs.9295 Hs.29316 Hs.98303 Hs.54937 Hs.244624 66 Hs.27621 Hs.118397 Hs.296638 Hs.6705 Hs.1 51407 Hs.2209 Hs.189508 Hs.17877 Hs.2209 Hs.189068 Hs.91877 Hs.11006 Hs.199248 Hs.77873 Hs.154034 Hs.17873 Hs.154103 Hs.376137 Hs.154103 Hs.376137 Hs.154103 Hs.164058 Hs.75297 Hs.10336 Hs.11028 Hs.92282	4.6 4.6 Hs.93135 4.5 4.5 4.5 4.5 4.5 4.5 4.5 4.5 4.5 4.	4218 4219 8077 2576 6719 4.5 1907 6235 2002 2003 6300 2373 6562 3869 7789 3619 3620 7585 2483 2484 6650 1456 1457 5909 359 360 5060 2014 6308 4273 4274 8119 1700 6085 1681 6070 3349 7334 1981 1982 6285 3235 7234 4552 8349 1769 6135 3533 7505 999 5562 1366 5839 3900 7816 4260 8107 3430 7413 1290 5781 2878 6940 1596 1597 6008 1891 6223 605 5250 3861 7782 320 5033 4387 8214 1092 5632 1924 6245 703 5327 222 4956 1741 1742 6115 1489 5932 1368 5841
505560657075	451195 429505 424162 424800 447809 446681 443402 428862 420486 409553 424870 452036 422562 422424 438704 424634 437117 423013 441689 416391 419648 447205 451820 439755 418994 432503 421814 424066 412563 446619 409182 453079 417259 417259 424262 413333 408443 422809 420895 419682 433001	mesenchyme homeo box 1 a disintegrin and metalloproteinase dom ESTs, Weakly similar to ALU2_HUMAN A MyoD family Inhibitor lipoprotein lipase kendrin elastin (supravalvular aortic stenosis, SRY (sex determining region Y)-box 9 (c caveolin 3 semaphortn Y ESTs sema domain, seven thrombospondin repr AE-binding protein 1 prostate differentiation factor ESTs cartilage intermediate layer protein, n ESTs Iroquois-class homeobox protein IRX2 secreted modular calcium-binding protei ESTs mesoderm specific transcript (mouse) ho thyroid hormone responsive SPOT14 (rat) ESTs, Moderately similar to T17372 plas ESTs B7 homolog 3 selectin E (endothelial adhesion molecu ESTs thrombospondin 2 ESTs, Weakly similar to I38022 hypothet ESTs, Weakly similar to I38022 hypothet ESTs, Weakly similar to I38022 hypothet ESTs, Weakly similar to rat protein kin chondrollin sulfate proteoglycan 2 (ver DKFZP564C103 protein fibroblast growth factor 1 (acidic) ESTs hypothetical protein FLJ10549 gb;yw23b03.r1 Morton Fetal Cochlea Horr paired-like homeodomain transcription 1 clone HQ0310 PRQ0310p1	U10492 AW820035 LU AA336229 AU035688 M26380 AJ003624 U77846 NM_000346 AF035365 AF055020 T15545 az NM_00396 AJ962060 AJ186431 AU35060 NM_003613 ALD49256 AW972881 AW97	Hs.438 Hs.278679 Hs.178679 Hs.153203 Hs.180878 Hs.15896 Hs.9295 Hs.29316 Hs.98303 Hs.54937 Hs.244624 6 Hs.27621 Hs.118397 Hs.296638 Hs.6705 Hs.1 51407 Hs.12299 Hs.1289068 Hs.79284 Hs.77873 Hs.12461 Hs.98968 Hs.79284 Hs.7873 Hs.154103 Hs.154103 Hs.154103 Hs.154103 Hs.376137 Hs.154103 Hs.376137 Hs.154103 Hs.17297 Hs.10336 Hs.17297 Hs.10336 Hs.17299	4.6 4.6 Hs.93135 4.5 4.5 4.5 4.5 4.5 4.5 4.5 4.5 4.5 4.	4218 4219 8077 2576 6719 4.5 1907 6235 2002 2003 6300 2373 6562 3869 7789 3619 3620 7585 2483 2484 6650 1456 1457 5909 359 360 5060 2014 6308 4273 4274 8119 1700 6085 1681 6070 3349 7334 1981 1982 6285 3235 7234 4552 8349 1769 6135 3533 7505 999 5562 1366 5839 3900 7816 4260 8107 3430 7413 1290 5781 2878 6940 1596 1597 6008 1891 6223 605 5250 3861 7782 320 5033 4387 8214 1092 5632 1924 6245 703 5327 222 4956 1741 1742 6115 1489 5932 1368 5841 2923 2924 6977
50556065707580	451195 429505 424162 424800 447809 446681 443402 428862 420486 409553 424870 452036 422562 422424 438704 424634 437117 457411 443013 441689 416391 41968 416391 41968 412563 446619 409182 453079 417259 424262 413333 422809 420895 419895 419895 419895	mesenchyme homeo box 1 a disintegrin and metalloproteinase dom ESTs, Weakly similar to ALU2_HUMAN A MyoD family Inhibitor lipoprotein lipase kendrin elastin (supravalvular aortic stenosis, SRY (sex determining region Y)-box 9 (c caveolin 3 semaphorth Y ESTs sema domain, seven thrombospondin repr AE-binding protein 1 prostate differentiation factor ESTs cartilage intermediate layer protein, n ESTs roquois-class homeobox protein IRX2 secreted modular calcium-binding protei ESTs mesoderm specific transcript (mouse) ho thyroid hormone responsive SPOT14 (rat) ESTs, Moderately similar to T17372 plas ESTs P homolog 3 selectin E (endothelial adhesion molecu ESTs, Weakly similar to 138022 hypothet ESTs LIM protein (similar to rat protein kin chondrollin sulfate proteoglycan 2 (ver DKFZP564C103 protein fibroblast growth factor 1 (acidic) ESTs hypothetical protein FLJ10549 gb:yw23b03.r1 Morton Fetal Cochlea Horr paired-like homeodomain transcription f clone HQ0310 PRQ0310p1 ESTs	U10492 AW820035 LU AA336229 AU03588 M26380 AJ003624 U77846 NM_000346 AF036365 AF055020 T15545 as NM_00396 A1962060 A1186431 AU435060 NM_003613 ALD49256 AW97281 AW875443 A1123705 AI878927 T73661 BE617015 AW058357 AW748482 AA296520 AA551196 L12350 Z99348 Z25372 AU076643 AA064970 AW160480 AW903838 BE294493 M74028 N33937 AK001379 D H88685 H13139 AF217513 AI375922	Hs.438 Hs.278679 Hs.178679 Hs.153203 Hs.180878 Hs.15896 Hs.9295 Hs.29316 Hs.98303 Hs.54937 Hs.244624 6 Hs.27621 Hs.118397 Hs.296638 Hs.6705 Hs.1 51407 Hs.122593 Hs.176507 Hs.122593 Hs.77873 Hs.278607 Hs.19248 Hs.77873 Hs.89546 Hs.199248 Hs.77873 Hs.89546 Hs.188952 Hs.108623 Hs.112461 Hs.3131 Hs.3161 Hs.3161 Hs.3176137 Hs.154103 Hs.81800 Hs.144058 Hs.75297 Hs.10336 Hs.121028	4.6 4.6 Hs.93135 4.5 4.5 4.5 4.5 4.5 4.5 4.5 4.5 4.5 4.	4218 4219 8077 2576 6719 4.5 1907 6235 2002 2003 6300 2373 6562 3869 7789 3619 3620 7585 2483 2484 6650 1456 1457 5909 359 360 5060 2014 6308 4273 4274 8119 1700 6085 1681 6070 3349 7334 1981 1982 6285 3235 7234 4552 8349 1769 6135 3533 7505 999 5562 1366 5839 3900 7816 4260 8107 3430 7413 1290 5781 2878 6940 1596 1597 6008 1891 6223 605 5250 3861 7782 320 5033 4387 8214 1092 5632 1924 6245 703 5327 222 4956 1741 1742 6115 1489 5932 1368 5841 2923 2924 6977 3917 7829
505560657075	451195 429505 424162 424800 447809 446681 443402 428862 420486 409553 424870 452036 422562 422424 438704 424634 437117 423013 441689 416391 419648 447205 451820 439755 418994 432503 421814 424066 412563 446619 409182 453079 417259 417259 424262 413333 408443 422809 420895 419682 433001	mesenchyme homeo box 1 a disintegrin and metalloproteinase dom ESTs, Weakly similar to ALU2_HUMAN A MyoD family Inhibitor lipoprotein lipase kendrin elastin (supravalvular aortic stenosis, SRY (sex determining region Y)-box 9 (c caveolin 3 semaphortn Y ESTs sema domain, seven thrombospondin repr AE-binding protein 1 prostate differentiation factor ESTs cartilage intermediate layer protein, n ESTs Iroquois-class homeobox protein IRX2 secreted modular calcium-binding protei ESTs mesoderm specific transcript (mouse) ho thyroid hormone responsive SPOT14 (rat) ESTs, Moderately similar to T17372 plas ESTs B7 homolog 3 selectin E (endothelial adhesion molecu ESTs thrombospondin 2 ESTs, Weakly similar to I38022 hypothet ESTs, Weakly similar to I38022 hypothet ESTs, Weakly similar to I38022 hypothet ESTs, Weakly similar to rat protein kin chondrollin sulfate proteoglycan 2 (ver DKFZP564C103 protein fibroblast growth factor 1 (acidic) ESTs hypothetical protein FLJ10549 gb;yw23b03.r1 Morton Fetal Cochlea Horr paired-like homeodomain transcription 1 clone HQ0310 PRQ0310p1	U10492 AW820035 LU AA336229 AU035688 M26380 AJ003624 U77846 NM_000346 AF035365 AF055020 T15545 az NM_00396 AJ962060 AJ186431 AU35060 NM_003613 ALD49256 AW972881 AW97	Hs.438 Hs.278679 Hs.178679 Hs.153203 Hs.180878 Hs.15896 Hs.9295 Hs.29316 Hs.98303 Hs.54937 Hs.244624 6 Hs.27621 Hs.118397 Hs.296638 Hs.6705 Hs.1 51407 Hs.12299 Hs.1289068 Hs.79284 Hs.77873 Hs.12461 Hs.98968 Hs.79284 Hs.7873 Hs.154103 Hs.154103 Hs.154103 Hs.154103 Hs.376137 Hs.154103 Hs.376137 Hs.154103 Hs.17297 Hs.10336 Hs.17297 Hs.10336 Hs.17299	4.6 4.6 Hs.93135 4.5 4.5 4.5 4.5 4.5 4.5 4.5 4.5 4.5 4.	4218 4219 8077 2576 6719 4.5 1907 6235 2002 2003 6300 2373 6562 3869 7789 3619 3620 7585 2483 2484 6650 1456 1457 5909 359 360 5060 2014 6308 4273 4274 8119 1700 6085 1681 6070 3349 7334 1981 1982 6285 3235 7234 4552 8349 1769 6135 3533 7505 999 5562 1366 5839 3900 7816 4260 8107 3430 7413 1290 5781 2878 6940 1596 1597 6008 1891 6223 605 5250 3861 7782 320 5033 4387 8214 1092 5632 1924 6245 703 5327 222 4956 1741 1742 6115 1489 5932 1368 5841 2923 2924 6977

	446962	muscle specific ring finger protein 1		Hs.279709	4.4	3884 7801
	423922	muscle-specific beta 1 Integrin binding	AK001663	Hs.135458	4.4	1871 1872 6210
	425262	GS3955 protein		Hs.155418	4.4	2076 2077 6354
5	417421	nuclear receptor subfamily 4, group A,	AL138201	Hs.82120	4.4	1118 5653
3	418283	cathepsin K (pycnodysostosis)		Hs.83942	4.4	1210 1211 5724
	419407	hypothetical protein FLJ21276	AW410377	Hs.41502	4.3	1334 5817
	453221	ESTs		Hs.232311	4.3	4404 8228
	426395	hypothetical protein FLJ23316	BE151985	Hs.355669	4.3	2217 6451
10	436411	gb:ba63c07.y1 NIH_MGC_12 Homo sapk				3185 7190
10	423057	ESTs, Moderately similar to 138022 hypo		Hs.130816	4.3	1773 6139
	441104	ESTS		Hs.143903	4.3	3499 7474
	410762	HSKM-B protein		Hs.66170	4.3	492 493 5157
	414715	amylo-1,6-glucosidase, 4-alpha-glucanot		Hs.904	4.3	855 5450
15	433209	KIAA1474 protein	AB040907	Hs.278436	4.3	2953 2954 6999
13	418036	latent transforming growth factor beta	Z37976	Hs.83337	4.3	1180 1181 5699
	440087	hypothetical protein FLJ22678	W28969	Hs.7718	4.3	3452 7433
	417160	proteolipid protein 1 (Pelizaeus-Merzba		Hs.355807	4.3	1086 5626
	420456	SH3-domain binding protein 1	Z83844	Hs.97858	4.3	3281 5906
20	428046	ESTs, Moderately similar to i38022 hypo		Hs.337534	4.3	2393 6579
20	451154	ESTs .		Hs.33536	4.3	4215 8074
	410929	ESTs	H47233	Hs.30643	4.3	504 5166
	423563	protein kinase (cAMP-dependent, catalyt		Hs.75209	4.3	1817 6171
	411929	ESTs	AA098880	Hs.69297	4.3	561 5213
25	427826	myomegalin	AL043194	Hs.265848	4.3	2375 6564
23	430702	H factor 1 (complement)	U56979	Hs.250651	4.3	2724 2725 6823
	415885	KIAA0161 gene product	D79983	Hs.78894	4.3	953 954 5524
	437696	hypothetical protein dJ37E16.5		Hs.5790	4.3	3281 7274
	453452	ESTS		Hs.174497	4.3	4420 8242
30	421307	Homo sapiens mRNA; cDNA DKFZp434B				1528 5963
30	433043	lymphoid nuclear protein (LAF-4) mRNA		Hs.125019	4.3	2930 6982
	426054	ELAV (embryonic lethal, abnormal vision		Hs.166109	4.3	2164 2165 6413
	449342	hypothetical protein DKFZp434D1428	AA814517	Hs.321775	4.3	4082 7964
	403088	NM_003319*:Homo sapiens titin (TTN), m			4.3	4707
35	436315	hypothetical protein MGC4837	BE390513	Hs.27935	4.3	3182 7187
33	407711	KIAA1808 protein	AI085846	Hs.25522	4.2	151 4896
	422414	ESTS	AW875237	Hs.132160	4.2	1680 6069
	432943	HSPC018 protein		Hs.283677	4.2	2917 6971
	443105	chondroltin sulfate proteoglycan 4 (mel	X96753	Hs.9004	4.2	3600 3601 7568
40	450534	KIAA0470 gene product	AI570189	Hs.25132	4.2	4175 8040
40	431632	Homo sapiens cDNA FLJ10130 fis, clone		Hs.333144	4.2	2804 6882
	452195	ESTs		Hs.116878	4.2	4296 8138
	448386	KIAA1329 protein		Hs.21061	4.2	3997 3998 7896
	409716	Homo sapiens mRNA; cDNA DKFZp586J				383 5077
45	417796	ESTS -		Hs.367818	4.2	1159 5682
70	410055 420582	gene for serine/threonine protein kinas	AJ250839	Hs.58241	4.2	414 415 5102
	417675	Homo sapiens chromosome 19, cosmid R			4.2	1464 5915
	424806	similar to murine leucine-rich repeat p MSTP031 protein		Hs.3781	4.2	1144 5670
	438072	ESTs	AA382523 AA992149	Hs.105689	4.2 4.2	2004 6301
50	407330	gb:nn51b05.s1 NCI_CGAP_Kid6 Homo sa		Hs.121899		3297 7290
50	416857	FGENESH predicted TM containing protein			4.2	136 4884
	439737	Homo sapiens mRNA full length insert cD		Hs.292453 Hs.41271	4.2	1042 5592 3427 7410
	423914	Human DNA sequence from clone RP3-4				1868 6208
	425494	ESTs, Weakly similar to similar to anky	N55540	Hs.78026	4.2	2107 6374
55	423171	hypothetical protein DKFZp761G1913	AW138498	Hs.245880	4.2	1778 6143
	451811	hypothetical protein MGC1136		Hs.8719	4.2	4259 8106
	408449	dynamin 1	NM_004408		4.2	224 225 4958
	409882	heat shock 27kD protein family, member	A.1243191	Hs.56874	4.2	395 396 5087
	443163	ESTs		Hs.132079	4.2	3605 7572
60	456508	ESTs, Weakly similar to AF208855 1 BM-		Hs.123469	4.2	4521 8325
	454090 .	gb:MR0-CT0064-100899-002-h09 CT006			4.2	4490 8298
	432211	hypothetical protein FLJ10986		Hs.273333	4.2	2852 6917
	431830	small inducible cytokine subfamily A (C	Y16645	Hs.271387	4.2	2827 2828 6900
	445677	ras homolog gene family, member E	H96577	Hs.6838	4.2	3791 7723
65	417114	ESTs	AA193472	Hs.20007	4.2	1080 5621
	400653	NM_001104*:Homo sapiens actinin, alpha	1		4.2	4637
	433323	ESTs	AA805132	Hs.159142	4.2	2970 7011
	420139	lipase, hormone-sensitive	NM_005357		4.2	1419 1420 5881
7 0	447946	ESTs	Al566164	Hs.277445	4.2	3968 7870
70	445263	KIAA1560 protein	H57646	Hs.42586	4.2	3755 7697
	407896	Zic family member 1 (odd-paired Drosoph	D76435	Hs.41154	4.2	176 177 4919
	428317	ESTs		Hs.50745	4.2	2431 6610
	415668	Homo sapiens lysyl oxidase-like 4 (LOXL	AW957684	Hs.306814	4.2	936 5510
75	414774	plasminogen activator, urokinase		Hs.77274	4.2	869 870 5461
75	431103	pleiotrophin (heparin binding growth fa	M57399	Hs.44	4.2	2748 2749 6840
	425712	ESTs, Moderately similar to ALU1_HUMA			4.2	2130 6389
	408202	DKFZP586L151 protein		Hs.43658	4.1	202 4942
	424119	ESTs		Hs.113314	4.1	1899 6229
90	426369	Kreisler (mouse) maf-related leucine zi	AF134157	Hs.169487	4.1	2213 2214 6448
80	453876	ESTs, Weakly similar to 138022 hypothet		Hs.110406	4.1	4457 8271
	435406	calcium/calmodulin-dependent protein kl		Hs.4884	4.1	3124 7140
	429951	zinc finger protein 106		Hs.15220	4.1	2624 6752
	408920	fibronectin leucine rich transmembrane	AL120071	Hs.48998	4.1	276 4999
85	444412	Homo sapiens clone HH409 unknown mR			4.1	3700 7655
S	450336	Homo sapiens cDNA: FLJ23296 fis, clone		Hs.288928	4.1	4155 8025
	414117	proteolipid protein 1 (Pelizaeus-Merzba	W88559	Hs.355807	4.1	777 5386

	429317	Homo sapiens cDNA: FLJ21243 fis, clone	AA831552	Hs.268016	4.1	2544 6696
	416783	monocyte to macrophage differentiation-		Hs.79889	4.1	1031 5584
	450842			Hs.103316	4.1	4200 8061
5	451669	Homo sapiens, clone IMAGE:3603836, mF				4243 8095
5	416728 452991			Hs.79658 Hs.375560	4.1 4.1	1024 1025 5580 4376 8204
	413004		Al393659 T35901	Hs.75117	4.1	667 5300
	448866	· · · · · · · · · · · · · · · · · · ·	BE297743	Hs.284203	4.1	4044 7932
	447628	_17	Al914617	Hs.161353	4.1	3943 7850
10	452242		R50956	Hs.159993	4.1	4305 8145
	426996	Homo sapiens cDNA: FLJ21897 fis, clone		Hs.173108	4.1	2295 6503
	407965		W21483	Hs.41707	4.1	183 4925
	428303		AW974476	Hs.183601	4.1	2425 6606
	439450	ESTs	R51613	Hs.125304	4.1	3397 7380
15	435937	ESTs	AA830893	Hs.119769	4.1	3164 7172
	433972	cisplatin resistance-associated overexp	Al878910	Hs.278670	4.1	3021 7054
	428418	ESTs	Al368826	Hs.8768	4.1	2441 6619
	423550		F37675	Hs.152129	4.1	1815 6169
20	406627	ESTS	T64904	Hs.163780	4.1	30 4812
20	436555	ESTs, Weakly similar to 2003319A ankyri		Hs.304646	4.1 4.1	3200 7202
	408696	NS1-associated protein 1 thrombospondin 3	AW958157 L38969	Hs.355960 Hs.169875	4.1	249 4979 2226 2227 6457
	426433 408753	SH3 domain binding glutamic acid-rich p		Hs.47438	4.1	254 4983
	409038	small inducible cytokine subfamily A (C	T97490	Hs.50002	4.1	298 5016
25	416140	roundabout (axon guidance receptor, Dro		Hs.301198	4.0	978 5545
	422961	B-cell CLL/lymphoma 9	Y13620	Hs.122607	4.0	1763 1764 6131
	446508	hypothetical protein FLJ13441	H11701	Hs.232146	4.0	3844 7768
	430558	KIAA1067 protein	AB028990	Hs,325530	4.0	2710 2711 6813
	411127	hypothetical protein	AA668995	Hs.323463	4.0	516 5176
30	446019	histone deacetylase 3	Al362520	Hs.302718	4.0	3810 7739
	415580	ESTs, Weakly similar to ALU1_HUMAN A		Hs.369191	4.0	931 5505
	417994	cytotoxic T-lymphocyte-associated prote		Hs.247824	4.0	1173 5694
	421937	hematological and neurological expresse		Hs.109706	4.0	1617 6024
35	446510	retinoic acid induced 14	H58306	Hs.15165	4.0	3847 7770
22	426817	Homo sapiens mRNA; cDNA DKFZp564C				2276 6488
	421483 412473	hypothetical protein MGC11333 ESTs	NM_003388 F23393	Hs.153060	4.0 4.0	1545 1546 5973 594 5241
	424223	putative DNA/chromatin binding motif	AJ243706	Hs.143323	4.0	1915 1916 6240
	449030	Homo sapiens mRNA for FLJ00016 protei		Hs.57100	4.0	4059 7943
40	426344	transcriptional activator of the c-fos	H41821	Hs.322469	4.0	2209 6445
	432787	HSPC054 protein	NM_014152		4.0	2905 2906 6962
	426304	Homo sapiens cDNA FLJ11477 fis, clone			4.0	2198 6438
	419290	spinal cord-derived growth factor-B	Al128114	Hs.112885	4.0	1327 5810
	406850	collagen, type I, alpha 1	A1624300	Hs.172928	4.0	70 4837
45	401284	Target Exon			4.0	4648
	448121	hypothetical protein DKFZp564F013	AL045714	Hs.128653	4.0	3979 7881
	448646	transcription factor 12 (HTF4, helix-lo	AU077149	Hs.21704	4.0	4022 7914
	459578	EST			4.0	8391
50	440594	ESTs	AW445167	Hs.126036	4.0	3475 7453
20	419452	PTK7 protein tyrosine kinase 7 ESTs, Moderately similar to ALU7_HUMA	U33635	Hs.90572	4.0	1340 1341 5821
	424511 443072	gb:wp78d02.x1 NCI_CGAP_Bm25 Homo			4.0	1967 6276 3599 7567
	429713	thioredoxin, milochondrial	N41898	Hs.211929	4.0	2608 6740
	446452	KIAA0740 gene product	AB018283	Hs.15099	3.9	3839 3840 7765
55	451678	DKFZP564D0764 protein	AA374181	Hs.26799	3.9	4244 8096
	419940	ESTs	AW611903	Hs.144585	3.9	1397 5864
	415024	ESTs	AI983981	Hs.296141	3.9	902 5483
	445470	ESTs	Al239871	Hs.154758	3.9	3772 7710
CO	418399	hypothetical protein FLJ12442	AF131781	Hs.84753	3.9	1232 1233 5738
60	413929	collagen, type IV, alpha 2	BE501689	Hs.75617	3.9	754 5368
	430030	lectin, galactoside-binding, soluble, 1	BE300094	Hs.227751	3.9	2641 6764
	452701	glutamine-fructose-6-phosphate transami			3.9	4345 4346 8178
•	426363 445900	transforming growth factor, beta 3	M58524	Hs.2025	3.9 3.9	2210 2211 6446 3803 7733
65	435520	Homo sapiens clone 24787 mRNA seque HNOEL-iso protein	AA297990	Hs.9315	3.9	3130 7146
05	411962	gb:zk85d12,r1 Soares_pregnant_uterus_i			3.9	563 5215
	432098	cytochrome P450 retinoid metabolizing p		Hs.91546	3.9	2839 2840 6908
	418647	gb:nc26a07.s1 NCI_CGAP_Pr1 Homo sa			3.8	1263 5761
	452277	KIAA1223 protein	AL049013	Hs.28783	3.8	4308 8148
70	408562	roundabout (axon guidance receptor, Dro		Hs.31141	3.8	240 4971
	452239	protein tyrosine phosphatase, receptor	AW379378	Hs.356289	3.8	4303 8143
	439424	hypothetical protein FLJ22833	AJ478667	Hs.118183	3.8	3396 7379
	433430	ESTs	AI863735	Hs.369982	3.8	2977 7018
75	439673	Homo sapiens cDNA: FLJ22290 fis, clone		Hs.9587	3.8	3416 7399
13	451691	ESTs	A1809278	Hs.208152	3.8	4248 8099
	417024 443617	ESTs papillary renal cell carcinoma (translo	A1467951 AA496425	Hs.133326 Hs.9629	3.8 3.8	1061 5606 3629 7592
	435553	KIAA0176 protein	D79998		3.8	3134 3135 7149
	433353	collagen, type VI, alpha 2	R50032	Hs.4935 Hs.159263	3.6 3.7	3085 7106
80	441965	ESTs	AA972712	Hs.269737	3.7	3544 7516
	422565	singed (Drosophila)-like (sea urchin fa	BE259035	Hs.118400	3.7	1701 6086
	429290	neurofilament, heavy polypeptide (200kD		Hs.198760	3.7	2538 2539 6692
	416322	pyrroline-5-carboxylate reductase 1	BE019494	Hs.79217	3.7	989 5554
0.5	432842	hypothetical protein MGC4485	AW674093	Hs.334822	3.7	2911 6966
85	430818	gb:qo89h04.x1 NCI_CGAP_Kid5 Homo s				2728 6826
	442578	hypothetical protein FLJ10781	AK001643	Hs.8395	3.7	3572 3573 7543

PCT/US2003/038193

	422084	hypothetical protein	AK001266	Hs.111279	3.7	1637 1638 6038
	426316	meningloma (disrupted in balanced trans	NM_002430	Hs.2 68515	3.7	2203 2204 6441
	418745	sprouty (Drosophila) homolog 1 (antagon		Hs.88044	3.7	1273 5768
_	412978	homeo box C6	AJ431708	Hs.820	3.7	665 5298
5	425741	Homo sapiens clone 24628 mRNA seque			3.7	2133 6391
	414358 432179	ESTs	AA476456	Hs.98969	3.6	807 5412
	442831	EphB3 ESTs	X75208 Al798959	Hs.2913 Hs.131686	3.6 3.6	2849 2850 6915 2586 7554
	453327	tryptophanyl-tRNA synthetase	AW500180	Hs.356109	3.6	3586 7554 4412 8235
10	407454	gb:Homo sapiens mRNA for exonemal dy		110.000100	3.6	140 141 4887
10	427375	metallocarboxypeptidase CPX-1	AL035460	Hs.177536	3.6	2320 2321 6522
	421920	gamma-aminobutyric acid (GABA) receptor			3.6	1614 6022
	448111	interferon-induced protein with tetratr	AA053486	Hs.20315	3.6 .	3978 7880
	410422	Homo sapiens, clone MGC:15203, mRNA	, co AL042014	Hs.63348	3.6	462 5136
15	418741	ESTs, Weakly similar to S41044 chromos	o H83265	Hs.8881	3.6	1272 5767
	416406	lipoma HMGIC fusion partner-like 2	D86961	Hs.79299	3.5	1001 1002 5564
1	431176	ESTs	Al026984	Hs.293662	3.5	2755 6844
	448412	ESTs, Moderately similar to ALU8_HUMA			3.5	4002 7899
20	417426	laminin, beta 1	NM_002291		3.5	1119 1120 5654
20	447471 414612	sprouty (Drosophila) homolog 2 protein inhibitor of activated STAT3	AF039843 BE274552	Hs.18676 Hs.76578	3.5 3.5	3930 3931 7839 938 5439
	430598	hypothetical protein FLJ10902	AK001764	Hs.247112	3.5	838 5438 2712 2713 6814
	407325	ESTs, Weakly similar to alternatively s	AA291180	Hs.328476	3.5	135 4883
	443228	KIAA1710 protein	W24781	Hs.293798	3.4	3610 7577
25	406972	gb:Human H19 RNA gene, complete cds.			3.4	89 4848
	439668	frizzled (Drosophila) homolog 8	Al091277	Hs.302634	3.4	3414 7397
	458300	ribosomal protein L31	AW612538	Hs.304491	3.4	4573 8370
	448309	N-deacetylase/N-sulfotransferase (hepar		Hs.20894	3.4	3993 7892
20	410023	slit (Drosophila) homolog 3	AB017169	Hs.57929	3.4	410 411 5099
30	453905	LIM domain kinase 1	NM_002314		3.4	4462 4463 8276
	435189	ESTs	AW581418	Hs.196244	3.4	3113 7131
	447809 429709	ESTs, Highly similar to JC7266 3',5'-cy dickkopf (Xenopus laevis) homolog 2	AW207605 BE047680	Hs.164230 Hs.211869	3.4 · 3.3	3964 7866 2607 6739
	424651	ESTs	Al493206	Hs.120785	3.3	1984 6287
35	422048	spondin 2, extracellular matrix protein	NM_012445		3.3	1631 1632 6034
	441499	ESTs	AW298235	Hs.101689	3.3	3522 7495
	437036	ESTs	Al571514	Hs.133022	3.3	3232 7231
	409430	splicing factor, arginine/serine-rich 5	R21945	Hs.346735	3.3	348 5052
40	407137	gb:ye53h05.s1 Soares fetal liver spleen	T97307		3.2	114 4866
40	409433	ESTs	AA074382	Hs.135255	3.2	349 5053
	429640	angiopoietin 1	U83508	Hs.2463	3.2	2596 2597 6732
	442828	FK506-binding protein 9 (63 kD)	BE263255	Hs.302749	3.2	3585 7553
	450161 439456	ESTs hypothetical protein FLJ20980	H78516 Al752409	Hs.201362	3.2	4137 8012
45	440614	hypothetical protein FLJ12879	AA781530	Hs.109314 Hs.127236	3.2 3.2	3400 7383 - 3476 7454
	417043	collagen, type VI, alpha 3	NM_004369		3.1	1064 1065 5609
	426027	platelet-derived growth factor beta pol	NM_002608		3.1	2161 2162 6411
	409197	chromosome 11 open reading frame 24	\N54706	Hs.303025	3.1	322 5035
	442487	hypothetical protein, estradiol-induced	AF191019	Hs.8361	3.1	3564 3565 7536
50	456856	Homo sapiens, Similar to DiGeorge syndr	AK001528	Hs.347285	3.0	4533 8335
						•
	TABLE 3B:					
	Pkey:	Unique Eos probeset identifier nun	nber			· · · · · · · · · · · · · · · · · · ·
55	CAT number					
	Accession:	Genbank accession numbers				
	Pkey	CAT Number Accession	********			
60	418059 426413	1164438_1 AA211586 F35799 F29720 372468_1 AW954494 AA377823 BG2				
00	420895	372468_1 AW954494 AA377823 BG2 263604_1 AA557228 AI275977 H886			9 A1022000	
	454090	579894_1 AW062465 AW062462 BF3			R2 AW0R24R1	AW062468 AW062467
	459578	996433_1 BE937231 BI712437 AW61				A11002100 A11002101
	411962	2307710_1 AA099050 AA099526 T477				
65	418647	243680_1 AA226513 AA383773 AA22	26198			
	TABLE 3C:					
	Pkey:	Unique number corresponding to a	in Eos probes	et		
70	Ref:	Sequence source. The / digit num	nbers in this co	olumn are Gen	ibank identifier	r (GI) numbers. "Dunham I. et al." refers to the publication entitled
70		The DNA sequence of human chromosome	22 * Dunbom	I of al Alaba	- (4000) A03-A	00.405
	Strand:	Indicates DNA strand from which e			8 (1555) 402:4	03-433.
	Nt_position:	Indicates nucleotide positions of pr				
	((Change))	maiotio maiotia patieno e, pi	oololoo onong	•		
75	Pkey		_position			
	405001	6015406 Minus 10	4646-104819			
	400499		8495-148806			
	400651		488-81646			
80	402621		0806-131036	400440 400	·n	
OV.	403081		5749-156048, 277-96420 06		93	
	401566 406519		277-96420,96 617-34928	313-31100		
	404977		081-43229			
	405681		420-79605			
85	402331		610-53888			
	403088		9894-170193,	170504-17080	06	

400653 8117978 Plus 109077-109307 401284 9800819 Minus 101307-101421

5	TABLE	4A

	Pkey:	Unique Eos probeset identif	Sor numbor			
	Gеле пате:		ist trattines			
	Accession:	Exemplar Accession number, Genbank ac	cession numb	er		
10	UniGene:	Unigene number				
	RATIO:	95th percentile of liposarcor	na Als divided	l by the 50th p	ercentile of n	ormal tissue Als, where the 10th percentile of normal tissue Als
	000104	was subtracted from both th	ie numerator a	and denominal	OF	•
	SEQID#:	nucleic acid and protein sequences provid	led on CD for	search purpos	:es	-
15	Pkey	Gene Name	Accession	UniGene	RATIO	CEOID#
	413778	myosin, light polypeptide 2, regulatory	AA090235	Hs.75535	37.3	SEQID# 740 5356
	407245	titin	X90568	Hs.172004	28.5	132 133 4881
	426752	titin	X69490	Hs.172004	22.4	2266 2267 6482
20	425545	Homo sapiens, clone MGC:12401, mRNA		Hs.158295	21.0	2114 6379
20	412519	troponin T1, skeletal, slow	AA196241	Hs.73980	19.9	598 5244
	400440 426300	nebulin delta-like hornolog (Drosophila)	X83957	Hs.83870	19.0	24 25 4627
	407013	gb:Human nebulin mRNA, partial cds	U15979 U35637	Hs.169228 Hs.83870	18.8 18.3	2196 2197 6437
	453857	Ras-induced senescence 1 (RIS1)	AL080235	Hs.35861	18.1	94 95 4851 4449 4450 8266
25	416931		D45371	Hs.80485	17.9	1047 1048 5597
	417070	titin	Z19077	Hs.172004	16.3	1070 5614
	406704		M21665	Hs.929	14.6	55 56 4826
	417435	carbonic anhydrase III, muscle specific	NM_005181		14.3	1121 1122 5655
30	420139 421296	lipase, hormone-sensitive perilipin	NM_005357		14.1	1419 1420 5881
50	405001	interleukin enhancer binding factor 1	NM_002666	ris. i 03233	14.0 13.2	1525 1526 5961 4767
	428087	troponin C2, fast	AA100573	Hs.182421	13.0	2396 6582
	413385	indoleamine-pyrrole 2,3 dioxygenase	M34455	Hs.840	12.9	710 711 5331
25	422060	ESTs, Moderately similar to ALU5_HUMA		Hs.325823	12.7	1633 6035
35	422640	troponin C, slow	M37984	Hs.118845	12.5	1718 1719 6099
	406964	FGENES predicted novel secreted protein			12.4	87 88 4847
	419648	thyroid hormone responsive SPOT14 (rat)		Hs.91877	12.2	1366 5839
	427809 411393	lipoprotein lipase B-factor, properdin (COMPLEMENT FACT	M26380	Hs.180878	12.2	2373 6562
40	458079	Homo sapiens similar to RIKEN cDNA 281	ION AVV1514 IN AI79687N	Hs.381220	12.1 12.0	531 5189 4566 8363
. •	418399	hypothetical protein FLJ12442	AF131781	Hs.84753	11.9	1232 1233 5738
	431830	small inducible cytokine subfamily A (C	Y16645	Hs.271387	11.8	2827 2828 6900
	429359	matrix metalloproteinase 14 (membrane-i	W00482	Hs.2399	11.8	2551 6702
45	410621	titin	AA194329	Hs.172004	11.7	481 5149
43	425292		NM_005824		11.6	2083 2084 6359
	453331 417389	ESTs midkine (neurite growth-promoting facto	Al240665	Hs.352537 Hs.82045	11.6	4413 8236
	428182	ESTs, Weakly similar to GGC1_HUMAN (3 AN RE38604	10.02040 12 Hs 293317	11.6 11.4	1109 5647 . 2403 6588
	419222	spermine synthase	AD001528	Hs.89718	11.2	1318 1319 5803
50	416373	ESTs, Weakly similar to S12658 cysteine	AA195845	Hs.73680	11.0	996 5559
	444381	hypothetical protein BC014245	BE387335	Hs.283713	10.9	3697 7652
	431089	ESTs, Weakly similar to unknown protein		Hs.374629	10.9	2745 6838
	410407 411296	carbonic anhydrase IX growth suppressor 1	X66839	Hs.63287	10.9	460 461 5135
55	427254	ESTs	BE207307 AL121523	Hs.10114 Hs.97774	10.7 10.6	524 5183 2312 6516
	446619	secreted phosphoprotein 1 (osteopontin,	AU076643	Hs.313	10.5	3861 7782
	422069	titin-cap (telethonin)	AJ010063	Hs.343603	10.4	1635 1636 6037
	418054	lysyl oxidase-like 2	NM_002318	Hs.8 3354	10.4	1184 1185 5702
60	418986		Al123555	Hs.293821	10.4	1288 5779
UU	416378 413902		AW044467	Hs.73708	10.3	997 5560
	411789	CD36 antigen (collagen type I receptor, Addican	AU076743 AF245505	Hs.75613 Hs.72157	10.2 10.2	752 5366 552 554 5207
	414152	thrombospondin 4	NM_003248		10.2	553 554 5207 782 783 5391
	418478		U38945	Hs.1174	10.1	1245 1246 5747
65	414219	ALL1-fused gene from chromosome 1q	W20010	Hs.75823	10.0	789 5397
	429185		AW203961	Hs.104977	9.8	2528 6682
	403593	Target Exon	4.4000000		9.8	4725
	407102 418391	glycerol-3-phosphate dehydrogenase 1 (s troponin I, skeletal, slow		Hs.348601	9.7	109 4861
70	428769	ESTs	NM_003281 AW207175	Hs.106771	9.6 9.5	1228 1229 5736 2470 6640
. •	407788	S100 calcium-binding protein A2	BE514982	Hs.38991	9.5	161 4905
	449109	ESTs, Weakly similar to ALU7_HUMAN A	LU AW27099	2 Hs.120949	9.4	4064 7948
	452620	ESTs	AA436504	Hs.119286	9.4	4338 8172
75	425367		BE271188	Hs.155975	9.4	2095 6366
13	418390 403088	titin immunoglobulin domain protein (my NM_003319°:Homo sapiens titin (TTN), m	AF133820	Hs.84665	9.4	1226 1227 5735
	426509		M31166	Hs.2050	9.3 9.2	4707 2243 2244 6468
	430476		AA447465	Hs.2563	9.2	2701 6807
00	419833	Homo sapiens tryptophanyl-tRNA synthete	AA251131	Hs.220697	9.1	1388 5856
80	410687	lysyl oxidase-like 1	U24389	Hs.65436	9.0	485 486 5153
	457869		AU077186		8.9	4561 8359
	410361 443514		BE391804	Hs.62661	8.9	456 5132 2004 7500
_	443071	complement component 1, q subcomponen	BE464288	Hs.25475	8.9 a o	3624 7588 3508 7566
85	414386		X00442	Hs.8986 Hs.75990	8.9 8.8	3598 7566 810 811 5415
	450098		W27249	Hs.8109	8.7	4134 8009
		•				

	409169	(clone PWHLC2-24) myosin light chain 2	F00991	Hs.50889	8.7	316 5029
	413011	biglycan	AW068115	Hs.821	8.6	669 5302
	420197	ESTs, Weakly similar to A57291 cytokine	AW139647	Hs.88134	8.5	1429 5889
5	418678	cancer/testis antigen (NY-ESO-1)	NM_001327		8.5	1269 1270 5765
)	450375	a disintegrin and metalloproteinase dom	AA009647	Hs.352537	8.5	4159 8028
	408202 411021	DKFZP586L151 protein	AA227710	Hs.43658	8.4	202 4942
·	413278	lifin Interferon-stimulated protein, 15 kDa	F00055 BE563085	Hs.172004	8.4	508 5169
	423739	ESTs	AA398155	Hs.833 Hs.97600	8.4 8.4	695 5322 1842 6190
10	438089	nuclear receptor subfamily 1, group I,	W05391	Hs.351546	8.4	3301 7294
	426429	myosin-binding protein C, slow-type	X73114	Hs.169849	8.4	2224 2225 6456
	424408	collagen, type V, alpha 1	AI754813	Hs.146428	8.3	1943 6260
	423778	flavin containing monooxygenase 2	Y09267	Hs.132821	8.3_	1846 1847 6193
1.5	407112	ESTs, Weakly similar to ALU7_HUMAN A	LU AA07080	l Hs.51615	8.3	111 4863
15	417370	tryptophanyl-IRNA synthetase	T28651	Hs.374466	8.2	1105 5643
	451099	interleukin 13 receptor, alpha 2	R52795	Hs.25954	8.1	4212 8071
	423024 418026	ESTs, Moderately similar to ALU5_HUMA			8.1	1770 6136
	434352	fatty acid binding protein 4, adipocyte small muscle protein, X-linked	BE379727 AF129505	Hs.83213 Hs.86492	8.0 8.0	1179 5698
20	447131	retinoic acid receptor responder (tazar	NM_004585		8.0	3047 3048 7075 3891 3892 7808
7.	452838	preferentially expressed antigen in mel	U65011	Hs.30743	7.9	4357 4358 8188
	427335	G antigen 7B	AA448542	Hs.278444	7.9	2317 6520
	431211	gap junction protein, beta 2, 26kD (con	M86849	Hs.323733	7.8	2762 2763 6850
0.5	444006	type I transmembrane protein Fn14	BE395085	Hs.334762	7.8	3668 7627
25	400499	C10001858:gi[6679124]ref[NP_032759.1]	n		7.8	4628
	448498	ESTs	AA418276	Hs.375003	7.8	4007 7904
	447205	ESTs, Moderately similar to T17372 plas		Hs.11006	7.7	3900 7816
	412326 427639	small inducible cytokine A3 (homologous		Hs.73817	7.7	582 5231
30	427639 430413	Homo sapiens, clone MGC:18257, mRNA	•			2353 6547
50	414821	small inducible cytokine A5 (RANTES) Fc fragment of IgG, high affinity la, r	AW842182 M63835	Hs.241392 Hs.77424	7.7 7.6	2693 6801
	409096	sarcomeric muscle protein	AA194412	Hs.50550	7.6 7.6	876 877 5465 302 5019
	418728	ESTs	AW970937	Hs.293843	7.6	1271 5766
	442573	branched chain aminotransferase 1, cyto		Hs.7567	7.5	3570 7541
`35	442069	membrane-bound transcription factor pro		Hs.297007	7.5	3548 7520
	437330	Homo sapiens mRNA; cDNA DKFZp761J				3253 7250
	420137	CD3D antigen, delta polypeptide (TiT3 c		Hs.95327	7.5	1418 5880
	428289	complement component 2	M26301	Hs.2253	7.5	2421 2422 6603
40	435523	membrane-spanning 4-domains, subfamil		Hs.11090	7.5	3131 7147 .
40	400288	integrin, alpha 5 (fibronectin receptor	X06256	Hs.149609	7.4	1 2 4614
	438746	Human melanoma-associated antigen p9		Hs.184727	7.3	3353 7337
	426310	neuropeptide Y receptor Y1	NM_000909		7.3	2199 2200 6439
	429973 425088	ESTs hypothetical protein FLJ12015	Al423317 AA663372	Hs.164680	7.3	2628 6756
45	444090	natural killer cell group 7 sequence	S69115	Hs.169395 Hs.10306	7.3 7.3	2049 6334 - 3675 3676 7634
	422633	enolase 3, (beta, muscle)	X56832	Hs.118804	7.3	1716 1717 6098
	449722	cyclin B1	BE280074	Hs.23960	7.2	4112 7990
	432606	granzyme K (serine protease, granzyme 3			7.2	2891 2892 6951
50	438091	nuclear receptor subfamily 1, group I,	AW373062	Hs.351546	7.2	3302 7295
50	419490	granzyme A (granzyme 1, cytotoxic T-lym		Hs.9 0708	7.2	1343 1344 5823
	418156	nuclear receptor subfamily 1, group 1,	W17056	Hs.83623	7.1	1198 5715
	424687	matrix metalloproteinase 9 (gelatinase	J05070	Hs.151738	7.1	1986 1987 6289
	417308 423961	KIAA0101 gene product periostin (OSF-2os)	H60720 D13666	Hs.81892 Hs.136348	7.0 7.0	1094 5634
55	410021	X-prolyl aminopeptidase (aminopeptidase		Hs.57922	7.0	1878 1879 6215
••	401403	Target Exon	. 12020000	110.07022	7.0	409 5098 4651
	406673	major histocompatibility complex, class	M34996	Hs.198253	7,0	90 91 4821
	434449	hypothetical protein FLJ22041 similar t	AW953484	Hs.3849	7.0	3057 7083
60	421508	absent in melanoma 2	NM_004833		7.0	1551 1552 5977
60	418460	CD8 antigen, alpha polypeptide (p32)	M26315	Hs.85258	7.0	1243 1244 5746
	430678	ESTs	AI458174	Hs.192855	7.0	2718 6818
	445937 420202	UDP-Gal:betaGlcNAc beta 1,4- galactosy putative lymphocyte G0/G1 switch gene	AL036557	Hs.321231 Hs.95910	7.0	3807 7737
	456063	retinol-binding protein 4, interstitial	NM_006744		6.9 6.9	1430 5890
65	429500	hexabrachion (tenascin C, cytotactin)	X78565	Hs.289114	6.8	4511 4512 8317 2574 2575 6718
	415989	ESTs	Al267700	Hs.351201	6.8	962 5530
	425234	ESTs, Weakly similar to 138022 hypothet		Hs.165909	6.8	2070 6349
	452701	glutamine-fructose-6-phosphate transami			6.8	4345 4346 8178
70	424825	procollagen-lysine, 2-oxoglutarate 5-di	AF207069	Hs.153357	6.8	2005 2006 6302
70	440709	ESTs	AW797724	Hs.130350	6.8	3484 7460
	424503	integrin, alpha 5 (fibronectin receptor	NM_002205		6.8	1965 1966 6275
	449523	chemokine (C-C motif) receptor 5	NM_000579		6.8	4094 4095 7976
	412584 414812	DNA segment on chromosome 12 (unique monokine induced by gamma interferon	X72755	Hs.74085	6.7	612 613 5255
75	424086	lysyl oxidase	A1351010	Hs.77367 Hs.102267	6.7 6.7	874 875 5464
	410274	hypoxia-inducible protein 2	AA381807	Hs.336402	6.7 6.7	1896 6227 444 5122
	403081	NM_003319*:Homo saplens titin (TTN), m		. 10.000702	6.7	4704
	437220	GS1999full	AL117542	Hs.334305	6.7	3247 7244
0.0	442553	hypothetical protein MGC4825	H87867	Hs.40065	6.7	3568 7539
80	451934	ESTs	A1540842	Hs.61082	6.7	4262 8109
	418062	thioredoxin peroxidase (antioxidant enz	AW630656	Hs.83383	6.7	1187 5704
	422627	transforming growth factor, beta-induce	BE336857	Hs.118787	6.7	1715 6097
	420981	peroxisome proliferative activated rece	L40904	Hs.100724	6.7	1495 1496 5936
85	432522	phosphatidylinositol glycan, class A (p hypothetical protein FLJ20093	D11466	Hs.51	6.6	2880 2881 6942
0,5	439285	hypothetical protein FLJ12921	AL133916	Hs.47860	6.6	3389 7372
	444329	Hypothouses protein Fts (234)	W73753	Hs.209637	6.6	3693 7648

			VTC404	U. 0477	e c	3552 7524
	442173		N76101 AE026942	Hs.8127 Hs.17518	6.6 6.6	137 4885
	407366	gb:Homo saptens cig33 mRNA, partial seq Fc tragment of IgG, low affinity IIIb,	746223	Hs.176663	6.6	2318 2319 6521
	427337 424420	I C Happing it of 1904 our manney may	BE614743	Hs.146688	6.5	1949 6264
5	419741	ubhuilin carrier protein E2-C	NM_007019	Hs.9 3002	6.5	1379 1380 5850
•	439092	gb:oc44f08.s1 NCI_CGAP_GCB1 Homo sa	aplen AA8301	149	6.5	3376 7359
	422530	bone marrow stromal cell antigen 2	AW972300	Hs.118110	6.5	1696 6082
	439237	Cotol Monel on the contract of	AW408158	Hs.318893	6.5	3384 7367 3755 7697
10	445263		H57646 AF212223	Hs.42586 Hs.25010	6.4 6.4	4168 4169 8036
10	450447 428976		AL037824	Hs.194695	6.4	2495 6658
	406625		Y13647	Hs.119597	6.4	28 29 4811
	446523	sarcolipin –	NM_003063	Hs.3 34629	6.4	3852 3853 7774
	401566	NM_005159:Homo sapiens actin, alpha, ca			6.4	4654
15	447770		AB032417	Hs.19545	6.4	3961 3962 7864
	429294	Homo sapiens cDNA: FLJ22463 fis, clone	AAU959/1	Hs.198793	6.4 6.4	2540 6693 3955 3956 7860
	447733	IN THE PROPERTY OF THE PROPERT	AF157482 AW975934	Hs.19400 Hs.172004	6.4	3245 7242
	437206 425397	ESTs, Weakly similar to 138344 titin, c topoisomerase (DNA) II alpha (170kD)	J04088	Hs.156346	6.4	2099 2100 6369
20	406922	gb:stearoyl-CoA desaturase (human, adip		Hs.119597	6.3	79 80 4843
	406837	immunoglobulin kappa constant	R70292	Hs.156110	6.3	69 4836
	409142	SMC4 (structural maintenance of chromos	AL136877	Hs.50758	6.3	312 313 5027
	410270	tumor endothelial marker 1 precursor	AF279142	Hs.195727	6.3	442 443 5121 4194 4195 8057
25	450787	aquaporin 7 gb:H.sapiens PTX3 gene promotor region.	AB006190	Hs.25475	6.3 6.3	102 4856
25	407061 429626	holocytochrome c synthese (cytochrome c	136787	Hs.211571	6.3	2593 2594 6730
	439424	hypothetical protein FLJ22833	Al478667	Hs.118183	6.3	3396 7379
	418113	SRY (sex determining region Y)-box 4	Al272141	Hs.83484	6.3	1194 5711
••	418607	KIAA1402 protein	AL137426	Hs.86392	6.2	1260 5759
30	414053	transgelin 2	BE391635	Hs.75725	6.2	774 5383
	426991	Homo sapiens cDNA FLJ10674 fis, clone			6,2 6.2	2294 6502 3430 7413
	439755	B7 homolog 3 ESTs	AW748482 U46258	Hs.77873 Hs.339665	6.2	3936 7844
•	447519 430699	ESTs, Wealthy similar to RET2_HUMAN R				2723 6822
35	426798	ESTs	AA385062	Hs.130260	6.2	2275 6487
	419913	ESTs	AW270040	Hs.34455	6.2	1395 5862
	414002	FBJ murine osteosarcoma viral oncogene	NM_00673	2 Hs.75678	6.2	763 764 5375
	424588	myosin, light polypeptide 3, alkali; ve	AA216287	Hs.1815	6.2 6.1	1988 6290 4360 8190
40	452862	ADAMTS2 (a disintegrin-like and metal)	AW378065 C18863	Hs.8687 Hs.163443	6.1	1820 6173
40	423575 424078	intron of periostin (OSF-2os) paternally expressed 3	AB006625	Hs.139033	6.1	1893 1894 6225
	423858	Homo sapiens mRNA; cDNA DKFZp434E				1858 6201
	416349	myornesin (M-protein) 2 (165kD)	X69089	Hs.79227	6.1	991 992 5556
	413436	sphingosine kinase 1	AF238083	Hs.68061	6.1	721 722 5339
45	449698	ESTs	AA279913	Hs.31922	6.1	4107 7987 527 5186
	411358	KIAA1691 protein	R47479 AA281959	Hs.94761 Hs.5210	6.1 6.1	3195 7199
	436496 443426	glia maturation factor, gamma chromosome 20 open reading frame 1	AF098158	Hs.9329	6.1	3621 3622 7586
	431204	cytochrome c oxidase subunit VIa polype		Hs.250760	6.1	2760 6848
50	421512	myomegalin	AB007923	Hs.265848	6.1	1554 1555 5979
	432239	matrix metalloproteinase 13 (collagenas	X81334	Hs.2936	6.1	2856 2857 6921
	419846	Williams-Beuren syndrome chromosome	reg NM_015	977 Hs.28568	1 6.1	1389 5857 2571 6715
	429490	ESTs, Weakly similar to ALU7_HUMAN	ALU A19/113 AF026939	Hs.23669 Hs.181874	6.1 6.1	2201 2202 6440
55	426312 410223	interferon-induced protein with tetratr catsequestrin 1 (fast-twitch, skeletal	S737:75	Hs.60708	6.1	433 434 5115
55	430681	ESTs	AW969675			2719 6819
	426691	PCTAIRE protein kinase 1		1 Hs.1 71834		2262 2263 6480
	416047	DNA segment, numerous copies, expres	sed BE43989	34 Hs.78991	6.0	965 5533
60	406664	glycerol-3-phosphate dehydrogenase 1 (Hs.348601		83 84 4819 4322 8159
60	452363	Homo sapiens, Similar to complement or NM_003319*:Homo sapiens titin (TTN), I	751 AIDO2 <i>14</i> 0 mD	Hs.94953	6.0 6.0	4706
	403087 417079	interleukin 1 receptor antagonist	U65590	Hs.81134	6.0	1073 1074 5616
	451533	serum deprivation response (phosphatid			6.0	4239 4240 8092
	419138	ryanodine receptor 1 (skeletal)	U48508	Hs.89631	6.0	1309 1310 5796
65	413773	ESTs	AA131780			739 5355
	427596	extracellular glycoprotein EMILIN-2 pre	AA449506		_	2350 6544 2296 6504
	427019	hypothetical protein FLJ10970 ESTs	AA001732 Al886558	Hs.173233 Hs.184987		3363 7346
	438885 450300	ESTs, Highly similar to ITH4_HUMAN IN			5.9	4154 8024
70	413670	hypothetical protein, expressed in oste	AB000115	Hs.75470	5.9	735 736 5352
	414315	gb:HSB65D052 STRATAGENE Human			5.9	803 5409
	423903	Interleukin 11	M57765	Hs.1721	5.9	1865 1866 6206
	422100	ADP-ribosylation factor-like 7	A1096988	Hs.111554 Hs.134014		1644 6042 4097 7978
75	449579	ESTs, Weakly similar to T46425 hypothe early growth response 2 (Krox-20 (Drose	BL AVVZU7201	9 Hs 1 395	5.9	1563 1564 5984
13	421566 412577	CD163 antigen	Z22968	Hs.74076	5.9	608 609 5252
	402507	Target Exon			5.8	4683
	411102	triadin	AA401295		5.8	515 5175
0.0	412965	procollagen-lysine, 2-oxoglutarate 5-di	L06419	Hs.75093	5.8	659 660 5294 69 4935
80	406836	immunoglobulin kappa constant cerebral cell adhesion molecule	AW51450 AB040935		5.8 5.8	68 4835 4110 4111 7989
	449717 431205	tropomodulin 4 (muscle)	AA194560			2761 6849
	409103	XAGE-1 protein	AF251237			304 305 5021
a -	409731	thymosin, beta, identified in neuroblas	AA125985	Hs.56145	5.8	386 5080
85	412471	endothelial cell growth factor 1 (plate	M63193	Hs.73946		591 592 5239
	427792	tumor necrosis factor receptor superfam	M63928	Hs.18084	1 5.8	2371 2372 6561

	440004					
	419301	tenomodulin protein	AA236166	Hs.132957	5.8	1328 5811
	424440 431806	ESTs tumor necrosis factor (ligand) superfam	AA340743	Hs.133208	5.8	1951 6266
_	409028	Z-band alternatively spliced PDZ-motif	AF186114 AB014513	Hs.270737 Hs.49998	5.8 5.8	2824 2825 6898 296 297 5015
5	415702	gb:HSPD18414 HM3 Homo sapiens cDN	IA don F28877	7 Hs.73680		942 5515
	406925	glycerol-3-phosphate dehydrogenase 1 (s L34041	Hs.348601	5.8	83 84 4845
	409882	heat shock 27kD protein family, member		Hs.56874	5.7	395 396 5087
	412129 443595	troponin T3, skeletal, fast	M21984	Hs.73454	5.7	571 572 5222
10	418299	PPAR(gamma) angiopoletin related proteintegrin, beta 2 (antigen CD18 (p95), I	AA279530	Hs.9613 Hs.83968	5.7	3626 3627 7590
	434474	holocytochrome c synthase (cytochrome	c AL042936	Hs.211571	5.7 5.7	1212 5725 3058 7084
	416783	monocyte to macrophage differentiation-	AA206186	Hs.79889	5.7	1031 5584
_	423057	ESTs, Moderately similar to 138022 hypo	AW961597	Hs.130816	5.7	1773 6139
15	447165 415192	Homo saplens, Similar to RIKEN cDNA		Hs.75668	5.7	3895 7811
13	425003	aldo-keto reductase family 1, member Ca apurinic/apyrimidinic endonuclease(APE		Hs.78183 Hs.154149	5.7	917 918 5494
	436326	aldo-keto reductase family 1, member B1		Hs.42636	5.7 5.7	2038 2039 6326 3183 7188
	443623	complement component 1, q subcompon	ent, AA345519	Hs.9641	5.7	3631 7594
20	422667	ESTs	H25642	Hs.132821	5.7	1723 6102
20	436608 430838	down syndrome critical region protein D hypothetical protein FLJ12015	AA628980	Hs.192371	5.7	3205 7207
	410011	PFTAIRE protein kinase 1	N46664 AB020641	Hs.169395 Hs.57856	5.7 5.6	2733 6829 406 407 5096
	409253	CD5 antigen-like (scavenger receptor cy	H91200	Hs.52002	5.6	332 5041
25	456534	phospholipase C, beta 3, neighbor pseud	X91195	Hs.100623	5.6	4522 8326
25	414531	allograft inflammatory factor 1	T69387	Hs.76364	5.6	829 5430
	437442 419745	 ESTs, Moderately similar to similar to slug (chicken homolog), zinc finger pro 	T85104	Hs.222779	5.6	3263 7258
	431671	polymerase (DNA directed), alpha	AF042001 NM_016937	Hs.93005 Hs.2 67289	5.6 5.6	1381 1382 5851 2807 2808 6884
20	447232	interleukin 10 receptor, alpha	AW499834	Hs.327	5.6	3905 7B20
30	438707	amino acid system N transporter 2; porc	L08239	Hs.5326	5.6	3350 3351 7335
	436856 451681	ESTS	Al469355	Hs.127310	5.6	3220 7221
	444666	ESTs, Weakly similar to AA64_HUMAN (long-chain fatty acid coenzyme A ligase	64 K 228564 BE293347	Hs.255950	5.6	4245 8097
	453454	PRP4/STKWD splicing factor	AW052006	Hs.11638 Hs.374973	5.6 5.6	3712 7664 4421 8243
35	417678	2,5-oligoadenylate synthetase 1 (40-4	X06560	Hs.82396	5.6	1145 1146 5671
	456508	ESTs, Weakly similar to AF208855 1 BM	-0 AA502764	Hs.123469	5.6	4521 8325
	450785 422526	Homo sapiens, alpha-1 (VI) collagen	AA852713	Hs.108885	5.6	4193 8056
	409041	ESTs Hypothetical protein, XP_051860 (KIAA1	AA311763	Hs.131056	5.6	1695 6081
40	411127	hypothetical protein	AA668995	Hs.50081 Hs.323463	5.6 5.6	299 300 5017 516 5176
	430044	ESTs	AA464510	Hs.152812	5.5	2642 6765
	408122	hypothetical protein FLJ10718	A1432652	Hs.42824	5.5	193 4935
	421779 422726	wingless-type MMTV integration site fam		Hs.108219	5.5	1592 6004
45	427378	faciogenital dysplasia (Aarskog-Scott s melanoma antigen, family D, 1	U11690 BE515037	Hs.1572	5.5	1727 1728 6106
	414561	Homo sapiens amino acid transport syste	AI064813	Hs.177556 Hs.195155	5.5 5.5	2322 6523 831 5432
	422173	phorbolin-like protein MDS019 (CEM15)	BE385828	Hs.250619	5.5	1656 6052
	421369	U2 small nuclear ribonucleoprotein auxi	NM_005089	Hs.1 71909	5.5	1533 1534 5966
50	412170 406722	very low density lipoprotein receptor	D16532	Hs.73729	5.5	575 576 5225
50	409361	Homo sapiens SNC73 protein (SNC73) n sine oculis homeobox (Drosophila) homo	NM ODSORD	Hs.293441	5.5 5.5	64 4831
	403071	NM_003319*:Homo saplens titin (TTN), n	nR	טודד טוטו	5.5	344 345 5049 4702
	420005	ESTs	AW271106	Hs.133294	5.5	1407 5871
55	448988	gamma-aminobutyric acid (GABA) A rece	pt Y09763	Hs.22785	5.5	4055 4056 7940
55	418059 444783	gb:zn56d05.s1 Stratagene muscle 93720 anillin (Drosophila Scraps homolog), ac	9 AA211586	No COACO	5.5	1186 5703
	422106	Fc fregment of IgG binding protein	D84239	Hs.62180 Hs.111732	5.5 5.5	3722 3723 7672 1646 1647 6044
	433570	ESTs, Weakly similar to S55916 ribosoma	AI580053	Hs.109007	5.5	2988 7027
60	426304	Homo sapiens cDNA FLJ11477 fis, clone	H AA374532	Hs.124673	5.5	2198 6438
00	406387 429142	Target Exon .			5.5	4805
	453905	ESTs LIM domain kinase 1	AA835639 NM_002314	Hs.104972	5.5	2518 6676
	403362	NM_001615*:Homo sapiens actin, gamma	a 2.	U2'9 6966	5.5 5.5	4462 4463 8276 4715
CE	427557	plasminogen activator, urokinase recept	NM_002659	Hs.1 79657	5.4	2343 2344 6539
65	430478	apolipoprolein L, 3	NM_014349	Hs.2 41535	5.4	2702 2703 6808
	438915 418203	Williams-Beuren syndrome chromosome			5.4	3365 7348
	452046	CDC28 protein kinase 2 KIAA0802 protein	X54942 AB018345	Hs.83758	5.4	1202 1203 5719
	418532	neurotrophic tyrosine kinase, receptor,	F00797	Hs.27657 Hs.374321	5.4 5.4	4275 4276 8120 1252 5753
70	414555	phospholipase A2, group IIA (platelets.	N98569	Hs.76422	5.4	830 5431
	417336	disabled (Drosophila) homolog 2 (mitoge	R70429	Hs.81988	5.4	1097 5637
	427923 428450	FGENESH predicted 11 TM protein		Hs.301406	5.4	2385 6572
	420168	KIAA0175 gene product serine carboxypeptidase vitellogenic-ii	NM_014791 AF217508		5.4	2443 2444 6621
75	429134	ESTs		Hs.95594 Hs.99004	5.4 5.4	1424 1425 5885 2514 6673
	431620	2'-5'-oligoadenylate synthetase 2 (69-7	AA126109	Hs.264981	5.3	2802 6880
	430233	Homo sapiens mRNA; cDNA DKFZp564N	1063 (AW367	902 Hs.2364	43 5.3	2664 6781
•	456181 422567	ras inhibitor	. =	Hs.1030	5.3	4516 4517 8321
80	406703	glypican 6 myosin, heavy polypeptide 3, skeletal m		Hs.118407	5.3	1702 1703 6087
-	443907	TYRO protein tyrosine kinase binding pr		Hs.173084 Hs.9963	5.3 5.3	53 54 4825 3656 7617
	427239	ubiquitin carrier protein		Hs.356512	5.3	2311 6515
	448569 458046	signal transducer and activator of tran	BE382657	Hs.21486	5.3	4014 7909
85	458916 421848	ESTs collagen, type Vi, alpha 1		Hs.302755	5.3	4583 8380
	406868	immunoglobulin heavy constant gamma 3		Hs.108885 Hs.300697	5.3 5.3	1602 1603 6013
		guilli o	CHTCOCK	. 12000031	3.3	72 4839

	446500	sushi-repeat-containing protein, X chro	U78093	Hs.15154	5.3	3842 3843 7767
	406663	immunoglobulin heavy constant mu	U24683		5.3	39 40 4818
	422048	spondin 2, extracellular matrix protein	NM_012445	Hs.2 88126	5.3	1631 1632 6034
~	435750	KIAA1089 protein	AB029012	Hs.4990	5.3	3149 3150 7160
5	414459	CCAAT/enhancer binding protein (C/EBP)		Hs.76171	5.3	818 819 5422
	443672	butyrobetaine (gamma), 2-oxoglutarate d		Hs.9667	5.3 .	3634 7597
	409512	melanoma differentiation associated pro	AW979187	Hs.293591	5.3	354 5057
	433138	semaphorin sem2	AB029496	Hs.59729	5.3	2944 2945 6994
1Λ	435854	putative ankyrin-repeat containing prot	AJ278120	Hs.4996	5.2	3157 3158 7166
10	422491	neuronalin	AA338548	Hs.117546	5.2	1691 6077
	445084	hypothetical protein FLJ14761	H38914	Hs.250848	5.2	3742 7687
	433365	ESTS	AF026944	Hs.293797	5.2	2973 7014
	417900	CDC20 (cell division cycle 20, S. cerev	BE250127	Hs.82906	5.2	1165 5688
15	421064 416406	tumor necrosis factor, alpha-Induced pr	Al245432	Hs.101382	5.2	1503 5942
13		Ilpoma HMGIC fusion partner-like 2 dolichyl-phosphate mannosyltransferase	D86961	Hs.79299	5.2	1001 1002 5564
	433135 401961	NM_021626:Homo sapiens serine carbox	AA443873	Hs.110477	5.2 5.2	2943 6993
	433001	clone HQ0310 PRO0310p1	AF217513	Hs.279905	5.2 5.2	4669 2923 2924 6977
	424090	XIAP associated factor-1	X99699	Hs.139262	5.2	1897 1898 6228
20	436252	Homo sapiens cDNA FLJ11562 fis, clone		Hs.142827	5.2	3179 7184
	443898	Sec61 gamma	AW804296	Hs.9950	5.2	3655 7616
	445584	PTD012 protein	AF217518	Hs.8360	5.2	3786 3787 7719
	421778	actin related protein 2/3 complex, subu	AA428000	Hs.283072	5.2	1591 6003
	422481	DNAX-activation protein 10	AL050163	Hs.117339	5.2	1687 1688 6075
25	442619	ESTs, Weakly similar to AF164793 1 prot		Hs.20183	5.2	3575 7545
	419405	ESTs	Al377043	Hs.42189	5.2	1333 5816
	445107	ESTs. Weakly similar to 138022 hypothet		Hs.147313	5.2	3744 7689
	434096	plelomorphic adenoma gene-like 1	AW662958	Hs.75825	5.2	3029 7062
	416982	creatine kinase, mitochondrial 2 (sarco	J05401	Hs.80691	5.2	1055 1056 5602
30	439926	ESTs	AW014875	Hs.137007	5.2	3440 7422
	435680	Homo sapiens galectin-related inhibitor	H50946	Hs.284183	5.2	3145 7157
	421155	lysyl oxidase	H87879	Hs.102267	5.2	1512 5950
	457211	ESTs, Weakly similar to S51797 vasodila	AW972565	Hs.32399	5.2	4543 8344
25	412473	ESTs	F23393	Hs.153060	5.2	594 5241
35	438086	nuclear receptor subfamily 1, group 1,	AA336519	Hs.83623	5.2	3300 7293
	431103	pleiotrophin (heparin binding growth fa	M57399	Hs.44	5.2	2748 2749 6840
	413350	t-complex-associated-testis-expressed 1	U02556	Hs.75307	5.2	704 705 5328
	450506	fibroblast activation protein, alpha	NM_004460		5.2	4170 4171 8037
40	449118	Bet1 (S. cerevisiae) homolog	R67477	Hs.23103	5.2	4065 7949
40	418072	Human DNA sequence from clone RP3-3		Hs.86507	5.2	1190 5707
	428227	small inducible cytokine subfamily B (C	AA321649	Hs.2248	5.1	2410 6593
	434868	collagen, type VI, alpha 2	R50032	Hs.159263	5.1	3085 7106
	424982	phosphorylase, glycogen; muscle (McArdi		Hs.351580	5.1	2036 2037 6325
45	443883	serine (or cysteine) proteinase inhibit	AA114212	Hs.9930	5.1	3653 7614
70	427527 414695	immunoglobulin heavy constant mu	A1809057	Hs.153261	5.1	2340 6536
	441783	proteasome (prosome, macropain) subuni Homo sapiens clone 25012 mRNA seque		Hs.76913	5.1 5.1	850 5446
	436748	collagen, type VI, alpha 2	BE159107	Hs.159263	5.1	3537 7509
	444186	ESTs	Al127666	Hs.146447	5.1	3212 7213 3685 7642
50	452056	Homo sapiens, clone IMAGE:4054156, m				4280 8123
50	429997	apolipoprotein B mRNA editing enzyme, o			5.1	2636 2637 6761
	433048	ESTs, Weakly similar to ALU8_HUMAN A		Hs.194116	5.1	2932 6984
	410889	twist (Drosophila) homolog (acrocephalo		Hs.66744	5.1	501 502 5164
	414020	small inducible cytokine A4 (homologous			5.1	767 768 5378
55	431241		AA496799	Hs.36958	5.1	2765 6852
	421458	carbohydrate (keratan sulfate Gal-6) su	NM_003654		5.1	1543 1544 5972
	416586	secreted modular calcium-binding protei	D44643	Hs.14144	5.1	1016 5574
	412006	ESTs	AW451618	Hs.380683	5.1	565 5217
	418452	C-type (calcium dependent, carbohydrate	BE379749	Hs.85201	5.1	1241 5744
60	430252	testes development-related NYD-SP20	A1638774	Hs.105328	5.1	2668 6784
	415672	ESTs	N53097	Hs.193579	5.1	937 5511
	429415	procollagen C-endopeptidase enhancer	NM_002593		5.1	2557 2558 6706
	443780	activating transcription factor 5	NM_012068		5.1	3643 3644 7606
65	418322	cyclin-dependent kinase inhibitor 3 (CD	AA284166	Hs.84113	5.0	1214 5727
65 .	416433	ESTs	AI6589D4	Hs.84673	5.0	1004 5566
	448694	E3 ubiquitin ligase SMURF2	AA478756	Hs.194477	5.0	4027 7919
	407172	gb:ya92c05.s1 Stratagene placenta (9372		Hs.379019	5.0	117 4869
	433446	ESTS	AW469546	Hs.122116	5.0	2979 7020
70	446157	Homo saplens cDNA: FLJ22562 fis, clone		Hs.131740	5.0	3821 7749
70	447343 427051	ESTs, Highly similar to S02392 alpha-2- Homo sapiens cDNA FLJ10500 fis, clone		Hs.236894	5.0	3916 7828
	440087	hypothetical protein FLJ22678		Hs.173374	5.0	2297 6505
	440087 425825	lymphocyte antigen 6 complex, locus H	W28969 Al929508	Hs.7718 Hs.159590	5.0 5.0	3452 7433 2147 6399
	425843	death associated protein 3	BE313280			
75	426968	amphiphysin (Stiff-Mann syndrome with b		Hs.159627 Hs.173034	5.0 5.0	2149 6401
	441020	ESTs	W79283	Hs.35962	5.0	2290 2291 6499 3495 7471
	411894	GLI-Kruppel family member GLI3 (Greig of		Hs.72916	5.0	559 560 5212
	436222	Homo sapiens cDNA FLJ11489 fis, clone		Hs.122810	5.0	3177 7182
	416431	titin	AW384459	Hs.172004	5.0	1003 5565
80	445417	a disintegrin-like and metalloprotease	AK001058	Hs.12680	5.0	3766 7705
	424291	ephrin-B1	AL120051	Hs.144700	5.0	1931 6249
	413186	solule carrier family 16 (monocarboxyli	AU077141	Hs.75231	5.0	685 5315
	410600	ESTs, Moderately similar to \$65657 alph		Hs.351676	5.0	479 5147
0.5	425514	integrin, alpha 10	AF112345	Hs.158237	5.0	2108 2109 6375
85	431385	membrane-spanning 4-domains, subfamil	y BE178536	Hs.11090	5.0	2779 6863
	432485	CDW52 antigen (CAMPATH-1 antigen)	N90866	Hs.276770	5.0	2877 6939
						•

	400450					
	438158	ESTs	A1796556	Hs.187884	5.0	3305 7298
	425398 406621	hypothetical protein similar to tenasci	AL049689	Hs.156369	5.0	2101 2102 6370
	421483	immunoglobulin lambda locus hypothetical protein MGC11333	X57809 NM_003388	Hs.181125	5.0 5.0	26 27 4810 1545 1546 5973
5	450701	hypothetical protein XP_098151 (leucine	H39960	Hs.288467	5.0	4183 8048
	441188	ESTs	AW292830	Hs.255609	5.0	3503 7478
	408989	KIAA0746 protein	AW361666	Hs.49500	5.0	290 5010
	439867	ESTs	AA847510	Hs.161292	5.0	3435 7418
10	410867	fibrillin 1 (Marfan syndrome)	X63556	Hs.750	5.0	498 499 5162
10	403086	NM_003319*:Homo sapiens tilin (TTN), π			5.0	4705
	419726	bone morphogenetic protein 1	U50330	Hs.1274	4.9	1376 1377 5848
	448807 425708	ESTs hypothetical protein FLJ22530	AI571940	Hs.7549	4.9	4041 7930
	452438	JM4 protein	AK001342 BE514230	Hs.14570 Hs.29595	4.9 4.9	2128 2129 6388 4331 8165
15	409649	hypothetical protein FLJ20442	AA159216	Hs.55505	4.9	373 5070
	430009	ESTs	AA894564	Hs.22242	4.9	2638 6762
	417640	protein C receptor, endothelial (EPCR)	D30857	Hs.82353	4.9	1143 5669
	452106	ESTs	A1141031	Hs.21342	4.9	4289 8131
20	415701	gamma-glutamyl hydrolase (conjugase, fo	NM_003878	Hs.78619	4.9	940 941 5514
20	428242	leukemia inhibitory factor (cholinergic	H55709	Hs.2250	4.9	2411 6594
	424623	ESTs	AW963062	Hs.270737	4.9	1977 6282
	422609 444476	sialidase 1 (lysosomal sialidase)	Z46023	Hs.118721	4.9	1711 6093
	417511	isocitrate dehydrogenase 1 (NADP), solu chordin-like	AL049176	Hs.11223 Hs.82223	4.9 4.9	3701 3702 7656 1125 1126 5657
25	429044	ESTs	Al261490	Hs.145527	4.9	2506 6667
	441362	RAD51 (S. cerevisiae) homolog (E coli R		Hs.23044	4.9	3512 7486
	438203	ESTs	BE540090	Hs.7345	4.9	3308 7300
	416737	LIM domain protein	AF154335	Hs.79691	4.9	1028 1029 5582
20	449318	Homo sapiens, Similar to RIKEN cDNA 57	73 AW236021		4.9	4080 7962
30	450390	Human DNA sequence from clone RP11-	234G N93227	Hs.348805	4.9	4163 8031
	410701	RNA binding motif protein 8A	AF198620	Hs.10283	4.9	487 488 5154
	422867	cartilage oligomeric matrix protein (ps	L32137	Hs.1584	4.9	1751 1752 6122
	439981	ESTs, Weakly similar to T14742 hypothet		Hs.124675	4.9	3443 7425
35	427399	KIAA0914 gene product	NM_014883		4.9	2323 2324 6524
33	421395 438441	pyruvate dehydrogenase (lipoamide) alph		Hs.1023	4.9	1538 1539 5969
	416404	ESTs ESTs	AW664960	Hs.205319	4.9	3322 7312
	447297	protease, cysteine, 1 (legumain)	AA180138 BE617970	Hs.107924 Hs.18069	4.9 4.9	1000 5563
	427209	KIAA1566 protein	H06509	Hs.92423	4.9	3914 7826 2309 6513
40	406646	major histocompatibility complex, class	M33600	Hs.375570	4.8	36 37 4816
	415076	guanylate cyclase 1, soluble, beta 3	NM_000857		4.8	906 907 5486
	421143	immunoglobulin superfamily containing I	AB024536	Hs.102171	4.8	1510 1511 5949
	423750	prefoldin 2	AF165883	Hs.298229	4.8	1843 1844 6191
4.5	423732	solute carrier family 16 (monocarboxyli	AF058056	Hs.132183	4.8	1840 1841 6189
45	408482	adenosine A2b receptor	NM_000676	Hs.4 5743	4.8	226 227 4959
	439688	hypothetical protein FLJ12921	AW445181	Hs.209637	4.8	3418 7401
	431070	transcription factor 19 (SC1)	AW408164	Hs.249184	4.8	2744 6837
	426935	collagen, type I, aipha 1	NM_000088		4.8	2288 2289 6498
50	417011 413945	ESTs, Weakly similar to 2109260A B cell		Hs.234898	4.8	1060 5605
50	418205	CD14 antigen troponin I, skeletal, fast	NM_000591 L21715	Hs.83760	4.8 4.8	758 759 5371
	432211	hypothetical protein FLJ10986	BE274530	Hs.273333	4.8	1204 1205 5720 2852 6917
	440086	v-ral simian leukemia viral oncogene ho	NM_005402		4.8	3450 3451 7432
	408901	hypothetical protein FLJ10468	AK001330	Hs.48855	4.8	272 273 4997
55	443021	lg superfamily protein	AA368546	Hs.8904	4.8	3593 7561
	431801	Homo sapiens cDNA FLJ10302 fis, clone	N AJ907522	Hs.270555	4.8	2823 6897
	414600	transducin (beta)-like 1	NM_005647	Hs.7 6536	4.8	835 836 5436
	408380	diubiquitin	AF123050	Hs.44532	4.8	217 218 4952
60	402621	Target Exon	10000004	11 450005	4.8	4684
ŲΟ	424755 409485	KIAA1268 protein	AB033094	Hs.152925	4.8	1995 1996 6295
	421362	ficolin (collagen/fibrinogen domain-con hypothetical protein FLJ20043	S80990 AK000050	Hs.252136 Hs.103853	4.8 4.8	351 352 5055 1531 1532 5965
	445537	EGF-like-domain, multiple 6	AJ245671	Hs.12844	4.8	3780 3781 7716
	433819	ESTs	AW511097	Hs.110069	4.8	3007 7042
65	425280	phosphoenolpyruvate carboxykinase 1 (so		Hs.1872	4.8	2080 2081 6357
	427498	methyl-CpG binding domain protein 3	NM_003926		4.8	2336 2337 6534
	444931	general transcription factor IIIA	AV652066	Hs.75113	4.8	3735 7681
	450000	hypothetical protein FLJ21709	A1952797	Hs.10888	4.8	4126 8003
70	425776	parathyroid hormone receptor 2	U25128	Hs.159499	4.8	2138 2139 6394
70	412755	ESTs, Weakly similar to P4HA_HUMAN F				637 5274
	445043	ESTs	AW014413	Hs.196066	4.8	3741 7686
	407824 418918	Homo sapiens cDNA FLJ14388 fis, clone			4.8	166 4910
	435080	CD2 antigen (p50), sheep red blood cell hypothetical protein FLJ14428	X07871 AIB31760	Hs.89476 He 155111	4.8 4.8	1282 1283 5775
75	423225	Thy-1 cell surface antigen	AA852604	Hs.155111 Hs.125359	4.8 4.8	3103 7122 1786 6148
	453985	ESTs	N44545	Hs.251865	4.8	4477 8287
	417849	nidogen 2	AW291587	Hs.82733	4.8	1161 5684
	430441	desmoplakin (DPI, DPII)	BE398091	Hs.374850	4.8	2699 6805
0.0	417621	interferon-induced, hepatitis C-associa	AV654694	Hs.82316	4.8	1140 5666
80	431183	KDEL (Lys-Asp-Glu-Leu) endoplasmic ret	NM_006855	Hs.250696	4.8	2756 2757 6845
	402408	NM_030920*:Homo sapiens hypothetical			4.8	4681
	408024	ESTs	AW905599	Hs.171501	4.8	186 4928
	414313	coatomer protein complex, subunit alpha			4.7	801 802 5408
85	420059 406636	RAB23, member RAS oncogene family gb:Homo sapiens (clone WR4.12VL) anti-	AF161486	Hs.94769	4.7	1412 1413 5875
33	405535 445434	hypothetical protein FLJ20917		Nº OSEE	4.7 4.7	32 33 4814
	777777	nypoulouses protein r to 20317	BE391690	Hs.9265	4.7	3769 7707

•	411000	shirthDEd12 of Casson arranged plants h	Ib A A 00000E0		47	cco code
	411962 417166 '	gb:zk85d12.r1 Soares_pregnant_uterus_N Paired box protein Pax-3		Un 40446	4.7 4.7	563 5215
	441187	hypothetical protein FLJ22174	AA431323	Hs.42146	4.7	1088 5628
	432878	Pirin	AW195237	Hs.7734 Hs.279663	4.7 4.7	3502 7477 2914 6969
5	435554	early B-cell factor	BE386490 AF208502	Hs.32425	4.7 4.7	3136 3137 7150
,	456804	caveolin 2	AI421645	Hs.139851	4.1 4.7	4529 8332
	446035	Sam68-like phosphotyrosine protein, T-S			4.7 4.7	
	435099	flap structure-specific endonuclease 1	AC004770		4.7	3813 3814 7742 3104 3105 7123
	407903	bHLH factor Hes4		Hs.4756		
10			Al287341	Hs.154029	4.7	178 4920
10	407204	ESTs, Weakly similar to ALU1_HUMAN A		Hs.140237	4.7	121 4873
	452613	ESTs	AA461599	Hs.23459	4.7	4337 8171
	431347	insulin-like growth factor 2 (somatomed	Al133461	Hs.251664	4.7	2774 6859
	447660	ESTs .	AW160386	Hs.163667	4.7	3946 7853
15	433036	ESTs	AA574091	Hs.105964	4.7	2929 6981
15	453828	ESTs	AW970960	Hs.293821	4.7	4444 8262
	417767	acyloxyacyl hydrolase (neutrophil)	BE242241	Hs.82542	4.7	1155 5678
	454024	hypothetical protein FLJ23403	AA993527	Hs.293907	4.7	4481 8290
	422809	hypothetical protein FLJ10549	AK001379	Hs.121028	4.7	1741 1742 6115
20	458208	ESTs, Weakly similar to T4S4_HUMAN T			4.7	4570 B367
20	416391	mesoderm specific transcript (mouse) ho		Hs.79284	4.7	999 5562
	448030	membrane-spanning 4-domains, subfamil	y N30714	Hs.325960	4.7	3971 7873
	414166	N-myc downstream regulated	AW888941	Hs.75789	4.7	784 5392
	422477	ankyrin repeat domain 2 (stretch respon	AA345800	Hs.73708	4.7	1686 6074
0.5	417376	LIM protein (similar to rat protein kin	AA253314	Hs.154103	4.7	1107 5645
25	405259	C12000526*:gi[7512168]pir][T30886 integ	ı		4.7	4774
	431706	adenylyl cyclase-associated protein 2	A1816086	Hs.296341	4.7	2811 6887
	437802	ESTs	A1475995	Hs.122910	4.7	3288 7281
	412749	signal sequence receptor, beta (translo	AA378417	Hs.74564	4.7	635 5272
	435370	ESTs	Al964074	Hs.225838	4.7	3120 7136
30	404977	Insulin-like growth factor 2 (somatomed			4.7	4766
	433264	cysteine dioxygenase, type I	D85782	Hs.3229	4.7	2965 2966 7007
	400528	NM_020975*:Homo saplens ret proto-onc			4.7	4631
	406707	myosin, heavy polypeptide 2, skeletal m	Š73840	Hs.931	4.6	61 62 4829
	428405	cholinergic receptor, nicotinic, alpha	Y00762	Hs.2266	4.6	2436 2437 6615
35	422424	prostate differentiation factor	Al186431	Hs.296638	4.6	1681 6070
	426413	gb:EST90805 Synovial sarcoma Homo sa			4.6	2219 6453
	414694	HSPC002 protein	NM_015362		4.6	848 849 5445
	412490	Homo sapiens cDNA: FLJ22528 fis, clone		Hs.288850	4.6	595 5242
	415812	TATA box binding protein (TBP)-associat		Hs.78865	4.6	949 5521
40	429930	ESTs	Al580809	Hs.352364	4.6	2623 6751
	407252	ESTs	AA659037	Hs.163780	4.6	134 4882
	426272	ESTs	AW450671	Hs.88012	4.6	2191 6434
-	406627	ESTs	T64904	Hs.163780	4.6	30 4812
	454029	homeo box A5	W05150 -	Hs.37034	4.6	4482 8291
45	414004	ESTs, Moderately similar to 2115357A TY		Hs.7155	4.6	765 5376
10	429380	secretory carrier membrane protein 3	AF023268		4.6	
	428291	interferon stimulated gene (20kD)	AA534009	Hs.200600		2554 2555 6704
	402855	NM_001839*:Homo sapiens calponin 3, a		Hs.183487	4.6 4.6	2423 6604
	418140			Un 02554		4694
50	400297	microfibrillar-associated protein 2	BE613836	Hs.83551	4.6	1196 5713
50		hypothetical protein DKFZp564O1278	AJ127076	Hs.288381	4.6	7 4618
	414416	hypothetical protein MGC2721	AW409985	Hs.76084	4.6	813 5417
•	424876	Homo saptens cione IMAGE:297403, mRI			4.6	2016 6310
	419250	U5 snRNP-specific protein, 116 kD	AW770185	Hs.356066	4.6	1322 5806
55	458207	U2 small nuclear ribonucleoprotein auxi	T28472	Hs.7655	4.6	4569 8366
55	445930	Homo sapiens clone 24747 mRNA seque			4.6	3804 7734
	411027	leukocyte immunoglobulin-like receptor,	AF072099	Hs.67846	4.6	509 510 5170
	414809	transferrin receptor (p90, CD71)	A1434699	Hs.77356	4.6	873 5463
	419407	hypothetical protein FLJ21276	AW410377	Hs.41502	4.6	1334 5817
60	431231	ESTs	AA653552	Hs.116532	4.6	2764 6851
OU	438451	ESTs	A)081972	Hs.220261	4.6	3323 7313
	417750	synovial sarcoma, translocated to X chr	A)267720	Hs.260523	4.6	1154 5677
	407930	Homo sapiens cDNA FLJ12807 fis, clone			4.6	182 4924
	410738	titin	AA197128	Hs.172004	4.6	491 5156
65	422765	baculoviral IAP repeat-containing 5 (su	AW409701	Hs.1578	4.6	1734 6110
05	436802	ESTS	N34486	Hs.132183	4.6	3216 7217
	437669	ESTs, Weakly similar to match to ESTs A		Hs.123164	4.6	3278 7271
	416658	fibrillin 2 (congenital contractural ar	U03272	Hs.79432	4.6	1020 1021 5577
	432290	Homo sapiens cDNA FLJ10237 fis, clone			4.6	2862 6926
70	453767	extracellular matrix protein 2, female	AB011792	Hs.35094	4.6	4439 4440 8258
70	424651	ESTs	Al493206	Hs.120785	4.6	1984 6287
	421016	transcription factor 3 (E2A immunoglobu		Hs.101047	4.5	1497 5937
	435460	ESTs	AA682439	Hs.118380	4.5	3126 7142
	449353	ESTs	AA001220	Hs.242947	4.5	4084 7966
75	413441	Src-like-adapter	Al929374	Hs.75367	4.5	723 5340
75	425568	ESTs	AW963118	Hs.161784	4.5	2115 6380
	433614	cytochrome c oxidase subunit IV isoform		Hs.277101	4.5	2993 7031
	427600	proteasome (prosome, macropain) activat		Hs.179774	4.5	2351 6545
	444638	ESTs	Al445775	Hs.143806	4.5	3709 7661
00	417352	gb:zp95h09.r1 Stratagene muscle 937209		Hs.86045	4.5	1099 5639
80	413943	Homo saplens cDNA FLJ12981 fis, clone			4.5	757 5370
	439332	Homo sapiens mRNA; cDNA DKFZp547N				3393 7376
	452052	midline 1 (Opitz/BBB syndrome)	NM_000381		4.5	4277 4278 8121
	410817	protein disulfide Isomerase related pro	Al262789	Hs.93659	4.5	497 5161
0.5	444842	bromodomain adjacent to zinc finger dom		Hs.194688	4.5	3729 3730 7676
85	400419	Target	AF084545		4.5	22 23 4626
	417920	adenosine monophosphate deaminase 2	(is S47833	Hs.82927	4.5	1167 1168 5690

408964 beta-site APP-cleaving enzyme AF201468 Hs.49349 4.5 439453 thyroth hormone receptor interactor 13 BE264974 Hs.6566 4.5 408212 hypothetical protein AA297567 Hs.43728 4.5 443142 protein phosphatase 2 (formerly 2A), re Al696513 Hs.108705 4.5 452063 ESTs, Weakly similar to TWST_HUMAN TWIS R53185 Hs.32366 4.5 439815 hypothetical protein FLJ20420 AA206079 Hs.6693 4.5 403074 NM_003319*:Horno sapiens titin (TTN), mR 447898 6.2 kd protein AW969638 Hs.380920 4.5 431767 Horno sapiens chromosome 21q22.1 anonymo AA196930 Hs.268526 4.5 431767 Horno sapiens chromosome 21q22.1 anonymo AA196930 Hs.268526 4.5 426822 ESTs W78950 Hs.220823 4.5 424001 patamally expressed 10 W67883 Hs.137476 4.5 414178 ESTs, Weakly similar to I38022 hypothet AW957372 Hs.46791 4.5 414862 single-stranded DNA-binding protein BE621310 Hs.923 4.5 443960 hypothetical protein FLJ21986 Al093577 Hs.255416 4.5 427458 ESTs, Weakly similar to LKHU proteoglyc BE208364 Hs.29283 4.5 418867 msh (Drosophila) horneo box hornolog 2 D31771 Hs.89404 4.5 415656 ESTs W84436 Hs.84673 4.5 447484 hypothetical protein FLJ14697 AA464839 Hs.292566 4.5 435373 ESTs W84436 Hs.84673 4.5 439731 hypothetical protein FLJ14084 Al953135 Hs.45140 4.5 439859 myogenic factor 6 (herculin) NM_002499 Hs.315303 4.5 452698 chamokine (C-C motif) receptor 1 NM_001295 Hs.301921 4.5	284 285 5006 3399 7382 206 4945 3604 7571 4281 8124 3433 7416 4703 3966 7868 2817 6892 2277 6489 1882 6217 788 5396 882 5468 3663 7623 2332 6530 1277 1278 5772 933 7841 3121 7137
408212 hypothetical protein 443142 protein phosphatase 2 (formerly 2A), re 4456513 Hs. 108705 4.5 439815 hypothetical protein FLJ20420 AA206079 Hs. 6593 4.5 403074 NM_003319*:Homo sapiens titin (TTN), mR 4.5 447898 6.2 kd protein AW969638 Hs. 380920 4.5 431767 Homo sapiens chromosome 21q22.1 anonymo AA196930 Hs. 268526 4.5 426822 ESTs W78950 Hs. 220823 4.5 424001 patametly expressed 10 W67883 Hs. 137476 4.5 414178 ESTs, Weakly similar to I38022 hypothat AW957372 Hs. 46791 4.5 414862 single-stranded DNA-binding protein BE621310 Hs. 923 4.5 414862 single-stranded DNA-binding protein BE621310 Hs. 255416 4.5 43960 hypothetical protein FLJ21986 A093577 Hs. 255416 4.5 43980 hypothetical protein FLJ21986 A093577 Hs. 255416 4.5 418867 msh (Drosophila) homeo box homolog 2 D31771 Hs. 89404 4.5 415655 ESTs W84346 Hs. 84673 4.5 447484 hypothetical protein FLJ14697 AA464839 Hs. 292566 4.5 443484 hypothetical protein FLJ14697 AA464839 Hs. 292566 4.5 439731 hypothetical protein FLJ14084 A1953135 Hs. 45140 4.5 433859 myogenic factor 6 (herculin) NM_002469 Hs. 3 5937 4.5 431104 ESTs	206 4945 3604 7571 4281 8124 3433 7416 4703 3966 7868 2817 6892 2277 6489 1882 6217 788 5396 882 5468 3663 7623 2332 6530 1277 1278 5772 933 5507 3933 7841 3121 7137
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A39815	3433 7416 4703 3966 7868 2817 6892 2277 6489 1882 6217 788 5396 882 5468 3663 7623 2332 6530 1277 1278 5772 933 6507 3933 7841 3121 7137
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15	1882 6217 788 5396 882 5468 3663 7623 2332 6530 1277 1278 5772 933 5507 3933 7841 3121 7137
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453859 myogenic factor 6 (herculin) NM_002469 Hs.3 5937 4.5 431104 ESTs AW970859 Hs.313503 4.5	2009 6304
431104 ESTS AW970859 Hs.313503 4.5	3425 7408
	4451 4452 B267
	2750 6841 4343 4344 8177
25 414883 CDC28 protein kinase 1 AA926960 Hs.348669 4.5	885 5471
409197 chromosome 11 open reading frame 24 N54706 Hs.303025 4.5	322 5035
412974 emoparnil-binding protein (sterol Isomer R18978 Hs.75105 4.5	664 5297
430770 ESTs AA765694 Hs.123296 4.5	2727 6825
2.0 444681 chromosome 6 open reading frame 9 AJ243937 Hs.288316 4.4	3715 3716 7667
30 447463 Mitochondrial Acyl-CoA Thioesterase AW378685 Hs.18625 4.4	3929 7838
428281 ATPase, H transporting, lysosomal (vacu AA194554 Hs.183434 4.4	2419 6601
. 408866 ESTs AW292096 Hs.255036 4.4 449175 homolog of yeast SPB1 AJ005892 Hs.23170 4.4	270 4995 4068 4069 7952
444669 ESTs F18939 Hs.153827 4.4	3713 7665
35 431093 eomesodermin (Xenopus laevis) homolog AB031038 Hs.301704 4.4	2746 2747 6839
412448 tumor necrosis factor receptor superfam L12964 Hs.73895 4.4	587 588 5236
444385 CGI-111 protein BE278964 Hs.11085 4.4	3698 7653
423595 ESTs R82826 Hs.220702 4.4	1823 6176
457567 gb:QV1-DT0069-010200-057-c12 DT0069 Hom AW939074 4.4	4557 8355
40 407896 Zic family member 1 (odd-palred Drosoph D76435 Hs.41154 4.4	176 177 4919
451938 down-regulator of transcription 1, TBP- Al354355 Hs.16697 4.4 432680 interferon, alpha-inducible protein 27 T47364 Hs.278613 4.4	4263 8110
432680 interferon, alpha-inducible protein 27 T47364 Hs.278613 4.4 428795 ESTs, Highly similar to A39769 N-acetyl R45503 Hs.97469 4.4	2895 6954 2475 6643
407907 procellagen-lysine, 2-oxoglutarate 5-di AI752235 Hs.41270 4.4	179 4 9 21
45 440184 dedicator of cyto-kinesis 3 AB002297 Hs.7022 4.4	3459 3460 7439
452664 hypothetical protein FLJ23221 AA398859 Hs.18397 4.4	4339 8173
445893 ESTs, Weakly similar to TRHY_HUMAN TRIC Al610702 Hs.202613 4.4	3802 7732
412430 fumarylacetoacetate hydrolase (fumaryla AW675064 Hs.73875 4.4	584 5233
452203 transporter 1, ATP-binding cassette, su X57522 Hs.352018 4.4 41224 calumenin AU076964 Hs.7753 4.4	4298 4299 8140
	3504 7479
436519 myozenin AJ278124 Hs.238756 4.4 439265 Homo sapiens cDNA: FLJ23197 fis, clone AL134430 Hs.6906 4.4	3196 3197 7200 3388 7371
428048 gb:zf41b11.s1 Soares_fetal_heart_NbHH19 AA705745 4.4	2394 6580
414653 procellager-proline 2-executerate 4-d M24486 Hs 76768 4.4	841 842 5441
55 408787 Rho guanine exchange factor (GEF) 11 NM_014784 Hs.4 7822 4.4	258 259 4987
406672 major histocompatibility complex, class M26041 Hs.198253 4.4	43 44 4820
403291 Target Exon 4.4	4713
422624 KDEL (Lys-Asp-Glu-Leu) endoplasmic reti BE616678 Hs.380986 4.4	1714 6096
459531 hypothetical protein FLJ11500 similar t Al200996 Hs.148533 4.4	4594 8390
[74] 412014 ESTa Maniha similar la A45010 V linkad A1520550 Un 42764 A4	566 5218
60 412014 ESTs, Weakly similar to A46010 X-linked Al620650 Hs.43761 4.4	4'25 / BOTG
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60 412014 ESTs, Weakly similar to A46010 X-linked A1620650 Hs. 43761 4.4 451186 ESTs, Weakly similar to leucine-rich gl AW023469 Hs. 65256 4.4 439302 ESTs AW467516 Hs. 208109 4.4	3390 7373
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60 412014 ESTs, Weakly similar to A46010 X-linked A1620650 Hs. 43761 4.4 451186 ESTs, Weakly similar to leucine-rich gl AW023459 Hs. 65256 4.4 439302 ESTs AW467516 Hs. 208109 4.4 407103 hypothetical protein MGC13170 AA424881 Hs. 256301 4.4 429052 ESTs A4443938 Hs. 268367 4.4 408365 hypothetical protein FLJ20514 AK000521 Hs. 44423 4.4	3390 7373 110 4862 2509 6669 158 4902 214 215 4950
60 412014 ESTs, Weakly similar to A46010 X-linked A1620650 Hs. 43761 4.4 451186 ESTs, Weakly similar to leucine-rich gl AW023469 Hs. 65256 4.4 439302 ESTs AW467516 Hs. 208109 4.4 407103 hypothetical protein MGC13170 AA424881 Hs. 256301 4.4 429052 ESTs AA443938 Hs. 368387 4.4 408365 hypothetical protein FLJ20514 AK000521 Hs. 44423 4.4 410079 glycogenin 2 U94362 Hs. 380757 4.4	3390 7373 110 4862 2509 6669 158 4902 214 215 4950 418 419 5104
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60 412014 ESTs, Weakly similar to A46010 X-linked A1620650 Hs. 43761 4.4 451186 ESTs, Weakly similar to leucine-rich gl AW023469 Hs. 65256 4.4 439302 ESTs A07103 hypothetical protein MGC13170 AA424881 Hs. 256301 4.4 429052 ESTs AA443938 Hs. 268301 4.4 Hs. 265301 4.4 408365 hypothetical protein FLJ20514 AK000521 Hs. 4423 4.4 408365 hypothetical protein FLJ20514 AK000521 Hs. 44423 4.4 410079 glycogenin 2 U94362 Hs. 380757 4.4 421893 vascular cell adhesion molecule 1 NM_001078 Hs. 1 09225 4.4 407241 gb:Human omega light chain protein 14.1 M34516 4.4	3390 7373 110 4862 2509 6669 158 4902 214 215 4950 418 419 5104 1608 1609 6018 130 131 4880
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60 412014 ESTs, Weakly similar to A46010 X-linked A1620650 Hs. 43761 4.4 451186 ESTs, Weakly similar to leucine-rich gl AW023469 Hs. 65256 4.4 439302 ESTs AW467516 Hs. 208109 4.4 429052 ESTs AA424881 Hs. 268301 4.4 429052 ESTs AA43338 Hs. 368337 4.4 408365 hypothetical protein FLJ20514 AK000521 Hs. 4828967 4.4 408365 hypothetical protein FLJ20514 AK000521 Hs. 44423 4.4 410079 glycogenin 2 U94362 Hs. 380757 4.4 421893 vascular cell adhesion molecule 1 NM_001078 Hs. 1 09225 4.4 407241 gb:Human omega light chain protein 14.1 M34516 4.4 414283 ESTs AW960011 Hs. 154993 4.3 453817 ESTs AW755253 Hs. 379636 4.3 44969 ESTs Al203334 Hs. 171862 4.3 423600 ESTs AI2033359 Hs. 310359 4.3 415169 ATPase, vacuolar, 14 kD W42913 Hs. 76089 4.3	3390 7373 110 4862 2509 6669 158 4902 214 215 4950 418 419 5104 1608 1609 6018 130 131 4880 797 5404 4442 8260
60 412014 ESTs, Weakly similar to A46010 X-linked A1620650 Hs. 43761 4.4 451186 ESTs, Weakly similar to leucine-rich gl AW023469 Hs. 65256 4.4 A39302 ESTs AW467516 Hs. 208109 4.4 429052 ESTs AA424881 Hs. 256301 4.4 429052 ESTs AA443938 Hs. 368387 4.4 408365 hypothetical protein FLJ20514 AK000521 Hs. 4423 4.4 408365 hypothetical protein FLJ20514 AK000521 Hs. 44423 4.4 410079 glycogenin 2 vascular cell adhesion molecule 1 NM_001078 Hs. 1 09225 4.4 407241 gb:Human omega light chain protein 14.1 M34516 4.4 407241 gb:Human omega light chain protein 14.1 M34516 4.4 453817 ESTs AW950011 Hs. 154993 4.3 453817 ESTs AW755263 Hs. 379636 4.3 423600 ESTs Al203334 Hs. 171862 4.3 423600 ESTs Al20333559 Hs. 370536 4.3 415169 ATPase, vacuolar, 14 kD W42913 Hs. 78089 4.3 407755 ubiquitin specific protease 18 AA116021 Hs. 38260 4.3	3390 7373 110 4862 2509 6669 158 4902 214 215 4950 418 419 5104 1608 1609 6018 130 131 4880 797 5404 4442 8260 3736 7682 1824 6177 915 5492 159 4903
600 412014 ESTs, Weakly similar to A46010 X-linked A1620650 Hs. 43761 4.4 451186 ESTs, Weakly similar to leucine-rich gl A9023469 Hs. 65256 4.4 439302 ESTs AW467516 Hs. 208109 4.4 407103 hypothetical protein MGC13170 AA424881 Hs. 256301 4.4 429052 ESTs AA43938 Hs. 368337 4.4 407754 Homo sapiens cDNA FLJ14105 fis, clone M AA527348 Hs. 368337 4.4 408365 hypothetical protein FLJ20514 AK000521 Hs. 4423 4.4 410079 glycogenin 2 U943562 Hs. 380757 4.4 421893 vascular cell adhesion molecule 1 NM_001078 Hs. 1 09225 4.4 407241 gb:Human omega light chain protein 14.1 M34516 4.4 414283 ESTs AW960011 Hs. 154993 4.3 453817 ESTs AW950011 Hs. 154993 4.3 423600 ESTs AI203334 Hs. 171862 4.3 423600 ESTs	3390 7373 110 4862 2509 6669 158 4902 214 215 4950 418 419 5104 1608 1609 6018 130 131 4880 797 5404 4442 8260 3736 7682 1824 6177 915 5492 159 4903 4515 8320
60 412014 ESTs, Weakly similar to A46010 X-linked A1620650 Hs. 43761 4.4 451186 ESTs, Weakly similar to leucine-rich gl AW023469 Hs. 65256 4.4 439302 ESTs AV07103 hypothetical protein MGC13170 AA424881 Hs. 256301 4.4 A29052 ESTs AA443938 Hs. 368387 4.4 A47564 Horno sapiens cDNA FLJ14105 fis, clone M AA527348 Hs. 268367 4.4 A408365 hypothetical protein FLJ20514 AK000521 Hs. 4423 4.4 Horno sapiens cDNA FLJ14105 fis, clone M AA527348 Hs. 268967 4.4 A408365 hypothetical protein FLJ20514 AK000521 Hs. 380757 4.4 A40079 glycogenin 2 U94362 Hs. 380757 4.4 A41893 vascular cell adhesion molecule 1 NM_001078 Hs. 109225 4.4 407241 gb:Human omega light chain protein 14.1 M34516 4.4 A4423 ESTs AW950011 Hs. 154993 4.3 453817 ESTs AW755253 Hs. 379636 4.3 444969 ESTs A1203334 Hs. 171862 4.3 423600 ESTS A15169 ATPase, vacuolar, 14 kD W42913 Hs. 78089 4.3 456115 titin F01082 Hs. 172004 4.3 422241 protein lyrosine phosphatase, receptor Y00062 Hs. 170121 4.3	3390 7373 110 4862 2509 6669 158 4902 214 215 4950 418 419 5104 1608 1609 6018 130 131 4880 797 5404 4442 8260 3736 7682 1824 6177 915 5492 159 4903 4515 8320 1663 1664 6058
60 412014 ESTs, Weakly similar to A46010 X-linked A1620650 Hs. 43761 4.4 451186 ESTs, Weakly similar to leucine-rich gl AW023469 Hs. 65256 4.4 439302 ESTs AW467516 Hs. 208109 4.4 4707103 hypothetical protein MGC13170 AA424881 Hs. 268301 4.4 429052 ESTs AA443938 Hs. 368387 4.4 408365 hypothetical protein FLJ20514 AK000521 Hs. 4423 4.4 408365 hypothetical protein FLJ20514 AK000521 Hs. 44423 4.4 410079 glycogenin 2 U94362 Hs. 380757 4.4 421893 vascular cell adhesion molecule 1 NM_001078 Hs. 1 09225 4.4 407241 gb:Human omega light chain protein 14.1 M34516 4.4 414283 ESTs AW755253 Hs. 379636 4.3 444969 ESTs AW755253 Hs. 379636 4.3 423600 ESTS A1633559 Hs. 3171862 4.3 423600 ESTS A1633559 Hs. 3171862 4.3 423600 ESTS A1633559 Hs. 310359 4.3 415169 ATPase, vacuolar, 14 kD W42913 Hs. 78089 4.3 407756 ubiquitin specific protease 18 AA116021 Hs. 38260 4.3 422241 protein tyrosine phosphatase, receptor Y00062 Hs. 70024 4.3 43639 proteasome (prosome, macropaln) subunit BE269042 Hs. 9661 4.3	3390 7373 110 4862 2509 6669 158 4902 214 215 4950 418 419 5104 1608 1609 6018 130 131 4880 797 5404 4442 8260 3736 7682 1824 6177 915 5492 159 4903 4515 8320 1663 1664 6058 3632 7595
60 412014 ESTs, Weakly similar to A46010 X-linked A1620650 Hs. 43761 4.4 451186 ESTs, Weakly similar to leucine-rich gl AW023469 Hs. 65256 4.4 439302 ESTs AW467516 Hs. 208109 4.4 4707103 hypolhetical protein MGC13170 AA424881 Hs. 266301 4.4 429052 ESTs AA443938 Hs. 368387 4.4 483655 hypothetical protein FLJ20514 AK000521 Hs. 4423 4.4 483656 hypothetical protein FLJ20514 AK000521 Hs. 44423 4.4 410079 glycogenin 2 U94362 Hs. 380757 4.4 421893 vascular cell adhesion molecule 1 NM_001078 Hs. 1 09225 4.4 407241 gb:Human omega light chain protein 14.1 M34516 4.4 414283 ESTs AW755253 Hs. 379636 4.3 434969 ESTs Al633559 Hs. 379636 4.3 423600 ESTs Al633559 Hs. 310359 4.3 423600 ESTs Al633559 Hs. 310359 4.3 415169 ATPase, vacuolar, 14 kD W42913 Hs. 78089 4.3 407756 ubiquitin specific protease 18 AA116021 Hs. 38260 4.3 422241 protein tyrosine phosphatase, receptor Y00062 Hs. 170121 4.3 43639 proteasome (prosome, macropaln) subunit BE269042 Hs. 9661 4.3 43639 hypothetical protein FLJ20396 BE386983 Hs. 343214 4.3	3390 7373 110 4862 2509 6669 158 4902 214 215 4950 418 419 5104 1608 1609 6018 130 131 4880 797 5404 4442 8260 3736 7682 1824 6177 915 5492 159 4903 4515 8320 1663 1664 6058 3632 7595 3990 7889
60 412014 ESTs, Weakly similar to A46010 X-linked A162050 Hs. 43761 4.4 451186 ESTs, Weakly similar to leucine-rich gl AW023469 Hs. 65256 4.4 439302 ESTs AW467516 Hs. 208109 4.4 407103 hypothetical protein MGC13170 AA424881 Hs. 256301 4.4 429052 ESTs AA443938 Hs. 368387 4.4 A08365 hypothetical protein FLJ20514 AK000521 Hs. 44423 4.4 410079 glycogenin 2 U94362 Hs. 380757 4.4 421893 vascular cell adhesion molecule 1 NM_001078 Hs. 109225 4.4 407241 gb:Human omega light chain protein 14.1 M34516 4.4 4.4 407241 gb:Human omega light chain protein 14.1 M34516 4.4 4.3 453817 ESTs AW755253 Hs. 379636 4.3 443699 ESTs Al203334 Hs. 171862 4.3 4356115 titin W42913 Hs. 38260 4.3 <	3390 7373 110 4862 2509 6669 158 4902 214 215 4950 418 419 5104 1608 1609 6018 130 131 4880 797 5404 4442 8260 3736 7682 1824 6177 915 5492 159 4903 4515 8320 1663 1664 6058 3632 7595 3990 7689 1913 1914 6239
60 412014 ESTs, Weakly similar to A46010 X-linked A1620550 Hs. 43761 4.4 451186 ESTs, Weakly similar to leucine-rich gl AW023469 Hs. 65256 4.4 439302 ESTs AW467516 Hs. 208109 4.4 Hs. 208109 4.4 429052 ESTs AA443938 Hs. 368387 4.4 Hs. 368387 4.4 Hs. 368387 4.4 Hs. 368365 hypothetical protein FLJ20514 AK000521 Hs. 4423 4.4 410079 glycogenin 2 U94362 Hs. 380757 4.4 410079 glycogenin 2 U94362 Hs. 380757 4.4 41283 vascular cell adhesion molecule 1 NM_001078 Hs. 1 09225 4.4 407241 gb:Human omega light chain protein 14.1 M34516 4.4 414283 ESTs AW755253 Hs. 37636 4.3 434969 ESTs A1203334 Hs. 171862 4.3 423600 ESTS A1633559 Hs. 310359 4.3 423600 ESTS A1633559 Hs. 310359 4.3 415169 ATPase, vacuolar, 14 kD W42913 Hs. 78089 4.3 407756 ubiquitin specific protease 18 AA116021 Hs. 38260 4.3 422241 protein tyrosine phosphatase, receptor 700062 Hs. 170121 4.3 422241 protein tyrosine phosphatase, receptor 700062 Hs. 170121 4.3 42680 432680 kynureninase (L-kynurenine hydrolase) Ms. 38868 Hs. 169139 4.3 AF031824 Hs. 143212 4.3 A43568 major histocompatibility complex, class R98865 Hs. 11135 4.3	3390 7373 110 4862 2509 6669 158 4902 214 215 4950 418 419 5104 1608 1609 6018 130 131 4880 797 5404 4442 8260 3736 7682 1824 6177 915 5492 159 4903 4515 8320 1663 1664 6058 3632 7595 3990 7889
60 412014 ESTs, Weakly similar to A46010 X-linked A1620650 Hs. 43761 4.4 451186 ESTs, Weakly similar to leucine-rich gl AW023469 Hs. 65256 4.4 439302 ESTs AW467516 Hs. 208109 4.4 Hs. 208109 4.4 429052 ESTs AA443938 Hs. 368387 4.4 429052 ESTs AA443938 Hs. 368387 4.4 408365 hypothetical protein MGC13170 AA424881 Hs. 256301 4.4 408365 hypothetical protein FLJ20514 AK000521 Hs. 44423 4.4 410079 glycogenin 2 U94362 Hs. 380757 4.4 421893 vascular cell adhesion molecule 1 NM_001078 Hs. 1 09225 4.4 407241 gb:Human omega light chain protein 14.1 M34516 4.4 414283 ESTs AW755253 Hs. 379636 4.3 4358817 ESTs AW755253 Hs. 379636 4.3 423600 ESTs Al633559 Hs. 310359 4.3 423600 ESTs Al633559 Hs. 310359 4.3 415169 ATPase, vacuolar, 14 kD W42913 Hs. 78089 4.3 407755 ubiquitin specific protease 18 AA116021 Hs. 38260 4.3 42241 protein tyrosine phosphatase, receptor Y00062 Hs. 170121 4.3 43639 proteasome (prosome, macropaln) subunit BE269042 Hs. 9661 4.3 442683 kynureninase (L-kynurenine hydrolase) Ms_003937 Hs. 1 69139 4.3 438568 major histocompatibility complex, class R98865 Hs. 11135 4.3 4.3 41000 ESTs, Weakly similar to S38383 SEB4B pr N40449 Hs. 201619 4.3 Hs. 201619 4.3	3390 7373 110 4862 2509 6669 158 4902 214 215 4950 418 419 5104 1608 1609 6018 130 131 4880 797 5404 4442 8260 3736 7682 1824 6177 915 5492 159 4903 4515 8320 1663 1664 6058 3632 7595 3990 7889 1913 1914 6239 2192 2193 6435
A12014 ESTs, Weakly similar to A46010 X-linked A1620650 Hs. 43761 4.4 A51186 ESTs, Weakly similar to leucine-rich gl AW023469 Hs. 65256 4.4 A39302 ESTs A07103 hypothetical protein MGC13170 AA424881 Hs. 268301 4.4 A429052 ESTs AA443938 Hs. 368387 4.4 A429052 ESTs AA443938 Hs. 368387 4.4 A43938 Hs. 368387 4.4 A44969 GSTs GSTs AW960011 Hs. 154993 4.3 A44969 ESTs AW755253 Hs. 379636 4.3 A43638 A44969 ESTs A1203334 Hs. 171862 4.3 A43639 A44969 ESTs A1633559 Hs. 310359 4.3 A456115 Itilin F01082 Hs. 78089 4.3 A43639 A48258 hypothetical protein FLJ20396 BE386983 Hs. 170121 4.3 A48258 hypothetical protein FLJ20396 BE386983 Hs. 143212 4.3 A42218 Cystatin F (leukocystatin) AF031824 Hs. 143212 4.3 A42683 A43668 A436688 A43668 A436688 A4366888 A4366888 A4366888 A4366888 A436	3390 7373 110 4862 2509 6669 158 4902 214 215 4950 418 419 5104 1608 1609 6018 130 131 4880 797 5404 4442 8260 3736 7682 1824 6177 915 5492 159 4903 4515 8320 1663 1664 6058 3632 7595 3990 7889 1913 1914 6239 2192 2193 6435 3336 7324
60 412014 ESTs, Weakly similar to A46010 X-linked A1620650 Hs. 43761 4.4 451186 ESTs, Weakly similar to leucine-rich gl AW023469 Hs. 65256 4.4 439302 ESTs AW467516 Hs. 208109 4.4 Hs. 208109 4.4 429052 ESTs AA443938 Hs. 368387 4.4 Hs. 265301 4.4 429052 ESTs AA443938 Hs. 368387 4.4 Hs. 208365 hypothetical protein FLJ20514 AK000521 Hs. 4423 4.4 410079 glycogenin 2 U94362 Hs. 380757 4.4 410079 glycogenin 2 U94362 Hs. 380757 4.4 421893 vascular cell adhesion molecule 1 NM_001078 Hs. 1 09225 4.4 407241 gb:Human omega light chain protein 14.1 M34516 4.4 414283 ESTs AW755253 Hs. 37936 4.3 433817 ESTs AW755253 Hs. 37936 4.3 423600 ESTs A1633559 Hs. 310359 4.3 423600 ESTS A1633559 Hs. 310359 4.3 415169 ATPase, vacuolar, 14 kD W42913 Hs. 78089 4.3 415615 tilh Forbit protein protein protein protein 4.3 42241 protein tyrosine phosphatase, receptor y00062 Hs. 170204 4.3 422241 protein tyrosine phosphatase, receptor y00062 Hs. 170121 4.3 42630 proteasome (prosome, macropaln) subunit BE269042 Hs. 9661 4.3 422241 protein tyrosine phosphatase, receptor y00062 Hs. 170121 4.3 42638 hypothetical protein FLJ20396 BE386983 Hs. 343214 4.3 42628 hypothetical protein FLJ20396 BE386983 Hs. 343214 4.3 42628 hypothetical protein FLJ20396 BE386983 Hs. 343214 4.3 42628 hypothetical protein FLJ20396 BE38685 Hs. 11135 4.3 43568 411000 ESTs, Weakly similar to S38383 SEB4B pr N40449 Hs. 201619 4.3	3390 7373 110 4862 2509 6669 158 4902 214 215 4950 418 419 5104 1608 1609 6018 130 131 4880 797 5404 4442 8260 3736 7682 1824 6177 915 5492 159 4903 4515 8320 1663 1664 6058 3632 7595 3990 7889 1913 1914 6239 2192 2193 6435 3336 7324 505 5167

	412359	gb:QV3-LT0048-140200-083-e05 LT0048	Hom 414/8370	85 He 56720	A 3	.583 5232
	427871	Homo sapiens, clone IMAGE:3507281, m				2380 6568
	433757	ESTs	Al949974	Hs.152670	4.3	3002 7038
_	429455	CD209 antigen	Al472111	Hs.278694	4.3	2563 6710
5	442426	hypothetical protein MGC5370	Al373062	Hs.332938	4.3	3562 7534
	415512	paralemmin	Y16270	Hs.78482	4.3	929 930 5504
	428618	Target CAT	AA885360	Hs.351796	4.3	2456 6629
	402685	Target Exon	l lancas	U- 4.43037	4.3	4687
10	424192 417911	P311 protein chaperonin containing TCP1, subunit 6A	U30521	Hs.142827 Hs.82916	4.3 4.3	1911 1912 6238 1166 5689
10	428125	leucine aminopepiidase	AA393071	Hs.182579	4.3	2400 6585
	446742	putative G-protein coupled receptor	AA232119	Hs.16085	4.3	3870 7790
	453862	Homo sapiens mRNA; cDNA DKFZp434B	1231 (AL1374	193 Hs.35945	4.3	4453 4454 B268
1.5	409267	transducin (bata)-like 2	NM_012453		4.3	337 338 5044
15	411149	ESTs	N68715	Hs.269128	4.3	517 5177
	449194	ESTs	R43799	Hs.23783	4.3	4070 7953
	436827 447178	guanine nucleotide binding protein (G p ESTs	H72187 AW594641	Hs.356668 Hs.192417	4.3 4.3	3218 7219 3896 7812
	422801	nuclear receptor co-repressor 2	AF125672	Hs.287994	4.3	1739 1740 6114
20	426156	natriuretic peptide receptor A/guanylat	BE244537	Hs.167382	4.3	2183 6427
	436895	carbonic anhydrase XII	AF037335	Hs.5338	4.3	3224 3225 7224
	413328	guanylate cyclase 1, soluble, alpha 3	Y15723	Hs.75295	4.3	701 702 5326
	426108	programmed cell death 5	AA622037	Hs.166468	4.3	2173 6420
25	432503 428342	Home appliant aDNA EL 1124ER for along	AA551196	Hs.188952	4.3	2878 6940
23	408864	Homo saplens cDNA FLJ13458 fis, clone exclsion repair cross-complementing rod		Hs.349283 Hs.48576	4.3 4.3	2432 6611 269 4994
	407868	proline-rich Gla (G-carboxyglutamic aci	NM_000950		4.3	172 173 4916
	420261	fibroblast growth factor receptor 1 (fm	AW206093	Hs.748	4.3	1440 5897
20	426858	ubiquitously-expressed transcript	NM_004182	Hs.1 72791	4.3	2280 2281 6492
30	412520	H2A histone family, member 0	AA442324	Hs.795	4.3	599 5245
	429228	ESTs	Al553633	Hs.356828	4.3	2533 6687
	444670 421873	hypothetical protein MGC5370	H58373	Hs.332938	4.3	3714 7666
	436962	chromosome 14 open reading frame 2 DKFZP564I052 protein	Al132988 AW377314	Hs.109052 Hs.5364	4.3 4.3	1605 6015 3229 7228
35	452291	CDC7 (cell division cycle 7, S. cerevis	AF015592	Hs.28853	4.3	4310 4311 8150
	425071	deiodinase, iodothyronine, type II	NM_013989		4.3	2043 2044 6330
	419050	adenosine monophosphate deaminase 1	(is NM_000036	6 Hs.89570	4.3	1293 1294 5784
	414285	ESTs	AA312914	Hs.71719	4.3	798 5405
40	452277	KIAA1223 protein	AL049013	Hs.28783	4.3	4308 8148
TU	418457 430683	Deleted in split-hand/split-foot 1 regi Homo saplens PAC clone RP4-697H17 fr	N95406	Hs.333495	4.3 4.3	1242 5745 2720 6820
	442376	Homo sapiens cDNA FLJ12228 fis, clone		Hs.129982	4.3	3557 7529
	412805	Homo sapiens, Similar to bromodomain-c		Hs.278675	4.2	647 5283
4 ~	421225	MCT-1 protein	AA463798	Hs.102696	4.2	1517 5954
45	417045	Homo saplens ORF1	F01180	Hs.332030	4.2	1066 5610
	412856	basigin (OK blood group)	BE386745	Hs.74631	4.2	652 5287
	400517 414031	lengsin hypothetical protein MGC10848	W22615	Hs.207443	4.2 4.2	4630
	452960	protein tyrosine phosphatase, receptor	AK001335	Hs.31137	4.2	770 5380 4373 8201
50	418741	ESTs, Weakly similar to S41044 chromos		Hs.8881	4.2	1272 5767
	410512	hypothetical protein MGC3180	AA085603	Hs.250570	4.2	468 5140
	414260	KIAA0218 gene product	NM_014760		4.2	793 794 5401
	448888	caspase recruitment domain protein 6	AW196663	Hs.200242	4.2	4049 7935
55	438596 424321	ESTs lymphocyte-specific protein tyrosine ki	AA829427 W74048	Hs.243081 Hs.1765	4.2 4.2	3337 7325 1933 6251
55	444172	ESTs, Moderately similar to 138022 hypo	RF147740	Hs.279789	4.2 4.2	3684 7641
	409703	2'-5'-oligoadenylate synthetase 3 (100	NM_006187		4.2	381 382 5076
	442432	hypothetical protein FLJ23468	BE093589	Hs.38178	4,2	3563 7535
60	409556	phosphorylase kinase, alpha 2 (liver)	D38616	Hs.54941	4.2	361 362 5061
60	400991	Target Exon MD-2 protein	4 D040E40) i= coooo'	4.2	4641
	411252 452260	RAB9, member RAS oncogene family	AB018549 AA453208	Hs.69328 Hs.330994	4.2 4.2	521 522 5181 4307 8147
	420311	Human DNA sequence from clone RP4-5			4.2	1444 5901
~ ~	435101	ESTs	Al743156	Hs.131064	4.2	3106 7124
65	406519	C10001858:gi 6679124 ref NP_032759.1	n		4.2	4808
	414522	Immunoglobulin J chain	AW518944	Hs.76325	4.2	827 5428
	432692	ESTs	AW974944	Hs.285814	4.2	2899 6957
	446291 414747	interferon, gamma-inducible protein 30 centromere protein F (350/400kD, mitosi	BE397753 U30872	Hs.14623 Hs.77204	4.2 4.2	3833 7760 861 862 5455
70	424494	phosphatidylinositol-4-phosphate 5-kina	U78575	Hs.149255	4.2	1961 1962 6273
	453000	retinoblastoma-binding protein 7	AW411340	Hs.31314	4.2	4378 8206
	448771	SNARE protein	BE315511	Hs.296244	4.2	4034 7925
	415938	A kinase (PRKA) anchor protein 1	BE383507	Hs.78921	4.2	959 5528
75	450423 414915	sialoadhesin	AA486735	Hs.31869	4.2	4167 8035
13	414915	myxovirus (influenza) resistance 1, hom spondyloepiphyseal dysplasia, late	NM_002462 NM_014563		4.2 4.2	888 889 5473 1033 1034 5586
	441283	ESTs	AA927670	Hs.131704	4.2	3506 7481
	435232	cyclin-dependent kinase Inhibitor 2C (p	NM_001262		4.2	3114 3115 7132
00	450923	ESTs	AW043951	Hs.38449	4.2	4203 8063
80	458806	Homo saplens PNAS-13 mRNA, complete			4.2	4580 8377
	424880	retinitis pigmentosa GTPase regulator exostoses (multiple) 2	NM_000328		4.2	2018 2019 6312
	413384 427274	colony stimulating factor 1 receptor, f	NM_000401 NM_005211		4.2 4.2	708 709 5330 2313 2314 6517
	439039	ESTs	A1656707	Hs.48713	4.2	3373 7356
85	429803	RAB31, member RAS oncogene family	W81489	Hs.223025	4.2	2612 6743
	417675	similar to murine leucine-rich repeat p	A1808607	Hs.3781	4.2	1144 5670

	416330	animalanidana hata f	A11077404	Un 70222	4.0	000 erer
	451806	galactosidase, beta 1	AU077101	Hs.79222	4.2 4.2	990 5555
	452401	RNA 3'-terminal phosphate cyclase	NM_003729			4257 4258 8105
	443462	tumor necrosis factor, alpha-induced pr ESTs	NM_007115 Al064690		4.2 4.2	4325 4326 8161
5	414907	polo (Drosophia)-like kinase	X90725	Hs.171176	4.2	3623 7587
,	412642	hepatocyte growth factor (hepapoletin A	BE244598	Hs.77597 Hs.809	4.2	886 887 5472 622 5261
	431882	engralled homolog 1	NM_001426		4.2	2832 2833 6903
	413833	centromere protein E (312kD)	Z15005	Hs.75573	4.2	748 749 5363
	413048	mannose receptor, C type 1	M93221	Hs.75182	4.2	672 673 5305
10	434883	hypothetical protein MGC12959	AW381538	Hs.19807	4.2	3088 7108
20	414878	ADP-ribosylation factor 5	AA341040	Hs.77541	4.2	884 5470
	452240	ESTs	Al591147	Hs.61232	4.2	4304 8144
	416322	pyrroline-5-carboxylate reductase 1	BE019494	Hs.79217	4.2	989 5554
-	413004	Interleukin enhancer binding factor 2.	T35901	Hs.75117	4.2	667 5300
15	432435	ESTs	BE218886	Hs.282070	4.2	2874 6936
	421485	hypothetical protein FLJ10134	AA243499	Hs.104800	4.2	1547 5974
	418197	gb:zn58g02.r1 Stratagene muscle 937209		Hs.50794	4.1	1200 5717
	420238	ESTs, Weakly similar to 2109260A B cell		Hs.12549	4.1	1436 5894
	437275	ESTs, Weakly similar to A47582 B-cell g	AW976035	Hs.292396	4.1	3251 7248
20	441406	phosphoprotein regulated by mitogenic p	Z45957	Hs.7837	4.1	3518 7491
	446272	hematopoietic cell-specific Lyn substra	BE268912	Hs.14601	4.1	3832 7759
	433230	ESTs	AW136134	Hs.220277	4.1	2960 7004
	430522	KIAA0471 gene product	N75750	Hs.242271	4.1	2706 6810
	427954	metaxin 1	J03060	Hs.247551	4.1	2387 .6574
25	434974	eukaryotic translation Initiation facto	AA778711	Hs.362973	4.1	3094 7113
	439223	UL16 binding protein 2	AW238299	Hs.250618	4.1	3383 7366
	448111	interferon-induced protein with tetratr	AA053486	Hs.20315	4.1	3978 7880
	452012	kinesin family member 4A	AA307703	Hs.279766	4.1	4269 8116
	429623	G protein-coupled receptor kinase 5	NM_005308		4.1	2591 2592 6729
30	433839	ESTs, Weakly similar to ALU1_HUMAN A		Hs.146070	4.1	3008 7043
	451514	beta-1,3-glucuronyltransferase 3 (glucu	NM_012200		4.1	4237 4238 8091
	425797	platelet activating receptor homolog	AF002986	Hs.159545	4.1	2142 2143 6396
	427747	serine/threonine kinase 12	AW411425	Hs.180655	4.1	2365 6557
~ ~	438866	tissue inhibitor of metalloproteinase 2	U44385	Hs.6441	4.1	3360 3361 7344
35	409461	N-myc (and STAT) interactor	AA382169	Hs.54483	4.1	350 5054
	444371	forkhead box M1	BE540274	Hs.239	4.1	3696 7651
	419081	ESTs	A1798863	Hs.87191	4.1	1299 5788
	409154	interferon-induced protein 35	U72882	Hs.50842	4.1	314 315 5028
40	438662	cleavage and polyadenylation specific f	AA223599	Hs.6351	4.1	3345 7330
40	424800	MyoD family inhibitor	AL035588	Hs.153203	4.1	2002 2003 6300
	435408	ESTs, Weakly similar to T29299 hypothet		Hs.4302	4.1	3125 7141
	418526	solute carrier family 16 (monocarboxyli	BE019020	Hs.85838	4.1	1251 5752
	402474	NM_004079:Homo sapiens cathepsin S (0	CTS		4.1	4682
15	429599 -	ESTs	AA806106	Hs.123664	4.1	2583 6724
45	438708	ESTs Homo sapiens phenylalkylamine binding p	AA806106 BE279778	Hs.30619	4.1 4.1 :	2583 6724 3352 7336
45	438708 435575	ESTs Homo sapiens phenylalkylamine binding p triggering receptor expressed on myelol	AA806106 BE279778 AF213457	Hs.30619 Hs.44234	4.1 4.1 :	2583 6724 3352 7336 3139 3140 7152
45	438708 435575 426363	ESTs Homo sapiens phenylalkylamine binding p triggering receptor expressed on myelol transforming growth factor, beta 3	AA806106 BE279778 AF213457 M58524	Hs.30619 Hs.44234 Hs.2025	4.1 4.1 : 4.1 4.1	2583 6724 3352 7336 3139 3140 7152 2210 2211 6446
45	438708 435575 426363 410036	ESTs Homo sapiens phenylalkylamine binding p triggering receptor expressed on myelol transforming growth factor, beta 3 calsequestrin 2 (cardiac muscle)	AA806106 BE279778 AF213457 M58524 R57171	Hs.30619 Hs.44234 Hs.2025 Hs.57975	4.1 4.1 4.1 4.1 4.1	2583 6724 3352 7336 3139 3140 7152 2210 2211 6446 412 5100
	438708 435575 426363 410036 407874	ESTs Homo sapiens phenylalkylamine binding p triggering receptor expressed on myelol transforming growth factor, beta 3 calsequestrin 2 (cardiac muscle) Homo sapiens cDNA FLJ14059 fis, clone	AA806106 BE279778 AF213457 M58524 R57171 H AI766311	Hs.30619 Hs.44234 Hs.2025 Hs.57975 Hs.289047	4.1 4.1 4.1 4.1 4.1 4.1	2583 6724 3352 7336 3139 3140 7152 2210 2211 6446 412 5100 175 4918
4550	438708 435575 426363 410036 407874 430255	ESTs Homo sapiens phenylalkylamine binding p triggering receptor expressed on myeloi transforming growth factor, beta 3 calsequestrin 2 (cardiac muscle) Homo sapiens cDNA FL114059 fis, clone Homo sapiens mRNA for KIAA1551 protei	AA806106 BE279778 AF213457 M58524 R57171 H AI766311 in, AK000703	Hs.30619 Hs.44234 Hs.2025 Hs.57975 Hs.289047 Hs.323822	4.1 4.1 : 4.1 4.1 4.1 4.1	2583 6724 3352 7336 3139 3140 7152 2210 2211 6446 412 5100 175 4918 2669 2670 6785
	438708 435575 426363 410036 407874 430255 451149	ESTs Homo sapiens phenylalkylamine binding p triggering receptor expressed on myeloi transforming growth factor, beta 3 calsequestrin 2 (cardiac muscle) Homo sapiens cDNA FLJ14059 fis, clone Homo sapiens mRNA for KIAA1551 protei RNA binding motif protein 8B	AA806106 BE279778 AF213457 M58524 R57171 H AI766311 in, AK000703 AL047586	Hs.30619 Hs.44234 Hs.2025 Hs.57975 Hs.289047 Hs.323822 Hs.10283	4.1 : 4.1 4.1 4.1 4.1 4.1 4.1 4.1	2583 6724 3352 7336 3139 3140 7152 2210 2211 6446 412 5100 175 4918 2669 2670 6785 4214 8073
	438708 435575 426363 410036 407874 430255 451149 425289	ESTs Homo sapiens phenylalkylamine binding p triggering receptor expressed on myeloi transforming growth factor, beta 3 calsequestin 2 (cardiac muscle) Homo sapiens cDNA FLJ14059 fis, clone Homo sapiens mRNA for KIAA1551 protei RNA binding motif protein 8B interferon, gamma-inducible protein 16	AA806106 BE279778 AF213457 M58524 R57171 H AI766311 in, AK000703 AL047586 AW139342	Hs.30619 Hs.44234 Hs.2025 Hs.57975 Hs.289047 Hs.323822 Hs.10283 Hs.155530	4.1 : 4.1 4.1 4.1 4.1 4.1 4.1 4.1 4.1	2583 6724 3352 7336 3139 3140 7152 2210 2211 6446 412 5100 175 4918 2669 2670 6785 4214 8073 2082 6358
	438708 435575 426363 410036 407874 430255 451149 425289 424665	ESTs Homo sapiens phenylalkylamine binding p triggering receptor expressed on myelol transforming growth factor, beta 3 calsequestrin 2 (cardiac muscle) Homo sapiens cDNA FLJ14059 fis, clone Homo sapiens mRNA for KIAA1551 protei RNA binding motif protein 8B interferon, gamma-inducible protein 16 caveolin 2	AA806106 BE279778 AF213457 M58524 R57171 H AI766311 in, AK000703 AL047586 AW139342 AW368576	Hs.30619 Hs.44234 Hs.2025 Hs.57975 Hs.289047 Hs.323822 Hs.10283 Hs.155530 Hs.139851	4.1 : 4.1 4.1 4.1 4.1 4.1 4.1 4.1 4.1 4.1 4.1	2583 6724 3352 7336 3139 3140 7152 2210 2211 6446 412 5100 175 4918 2669 2670 6785 4214 8073 2082 6358 1985 6288
50	438708 435575 426363 410036 407874 430255 451149 425289 424665 434815	ESTs Homo sapiens phenylalkylamine binding p triggering receptor expressed on myelol transforming growth factor, beta 3 calsequestrin 2 (cardiac muscle) Homo sapiens cDNA FLJ14059 fis, clone Homo sapiens mRNA for KIAA1551 protei RNA binding motif protein 8B interferon, gamma-inducible protein 16 caveolin 2 core1 UDP-galactose:N-acetylgalactosam	AA806106 D BE279778 AF213457 M58524 R57171 H AI766311 in, AK000703 AL047586 AW139342 AW368576 i AF155582	Hs.30619 Hs.44234 Hs.2025 Hs.57975 Hs.289047 Hs.323822 Hs.10283 Hs.155530 Hs.139851 Hs.46744	4.1 4.1 4.1 4.1 4.1 4.1 4.1 4.1 4.1 4.1	2583 6724 3352 7336 3139 3140 7152 2210 2211 6446 412 5100 175 4918 2669 2670 6785 4214 8073 2082 6358 1985 6288 3076 3077 7100
	438708 435575 426363 410036 407874 430255 451149 425289 424665 434815 431448	ESTs Homo sapiens phenylalkylamine binding pringgering receptor expressed on myeloi transforming growth factor, beta 3 calsequestrin 2 (cardiac muscle) Homo sapiens cDNA FLJ14059 fis, clone Homo sapiens mRNA for KIAA1551 protei RNA binding motif protein 8B interferon, gamma-inducible protein 16 caveolin 2 core1 UDP-galactose:N-acetylgalactosam hypothetical protein DKFZp56401278	AA806106 DE279778 AF213457 M58524 R57171 H AI766311 in, AK000703 AL047586 AW139342 AW368576 i AF155582 AL137517	Hs.30619 Hs.44234 Hs.2025 Hs.57975 Hs.289047 Hs.323822 Hs.10283 Hs.155530 Hs.139851 Hs.46744 Hs.306201	4.1 4.1 4.1 4.1 4.1 4.1 4.1 4.1 4.1 4.1	2583 6724 3352 7336 3139 3140 7152 2210 2211 6446 412 5100 175 4918 2669 2670 6785 4214 8073 2082 6358 1985 6288 3076 3077 7100 2785 2786 6869
50	438708 435575 426363 410036 407874 430255 451149 425289 424665 434815 431448 453149	ESTs Homo sapiens phenylalkylamine binding pringgering receptor expressed on myeloi transforming growth factor, beta 3 calsequestrin 2 (cardiac muscle) Homo sapiens cDNA FLJ14059 fis, clone Homo sapiens mRNA for KIAA1551 proteir RNA binding motif protein 8B interferon, gamma-inducible protein 16 caveolin 2 core1 UDP-galactose:N-acetylgalactosam hypothetical protein DKFZp564O1278 DKFZP434G145 protein	AA806106 DE279778 AF213457 M58524 R57171 H AI766311 in, AK000703 AL047586 AW139342 AW368576 i AF155582 AL137517 BE614781	Hs.30619 Hs.44234 Hs.2025 Hs.57975 Hs.289047 Hs.323822 Hs.10283 Hs.155530 Hs.139851 Hs.46744 Hs.306201 Hs.31931	4.1 4.1 4.1 4.1 4.1 4.1 4.1 4.1 4.1 4.1	2583 6724 3352 7336 3139 3140 7152 2210 2211 6446 412 5100 175 4918 2669 2670 6785 4214 8073 2082 6358 1985 6288 3076 3077 7100 2785 2786 6869 4395 8221
50	438708 435575 426363 410036 4007874 430255 451149 425289 424665 434815 431448 453149 434203	ESTs Horno sapiens phenylalkylamine binding p triggering receptor expressed on myelol transforming growth factor, beta 3 calsequestrin 2 (cardiac muscle) Horno sapiens cDNA FLJ14059 fis, clone Horno sapiens mRNA for KIAA1551 protei RNA binding motif protein 8B interferon, gamma-inducible protein 16 caveolin 2 core 1 UDP-galactose:N-acelylgalactosam hypothetical protein DKFZp56401278 DKFZP434G145 protein hypothetical protein PR01855	AA806106 DE279778 AF213457 M58524 R57171 H AI766311 in, AK000703 AL047586 AW139342 AW368576 ii AF165582 AL137517 BE614781 BE62677	Hs.30619 Hs.44234 Hs.2025 Hs.57975 Hs.289047 Hs.323822 Hs.10283 Hs.155530 Hs.139851 Hs.46744 Hs.306201 Hs.31931 Hs.283558	4.1 4.1 4.1 4.1 4.1 4.1 4.1 4.1 4.1 4.1	2583 6724 3352 7336 3139 3140 7152 2210 2211 6446 412 5100 175 4918 2669 2670 6785 4214 8073 2082 6358 1985 6288 3076 3077 7100 2785 2786 6869 4395 8221 3033 7066
50	438708 435575 426363 410036 407874 430255 451149 425289 424665 434815 431448 453149 434203 432169	ESTs Homo sapiens phenylalkylamine binding p triggering receptor expressed on myelol transforming growth factor, beta 3 calsequestrin 2 (cardiac muscle) Homo sapiens cDNA FLJ14059 fis, clone Homo sapiens mRNA for KIAA1551 protei RNA binding motif protein 8B interferon, garmma-inducible protein 16 caveolin 2 core1 UDP-galactose:N-acetylgalactosam hypothetical protein DKFZp56401278 DKFZP434G145 protein hypothetical protein PR01855 phosphoribosyl pyrophosphate synthetase	AA806106 DE279778 AF213457 M58524 R57171 H AI766311 in, AK000703 AL047586 AW139342 AW368576 ii AF165582 AL137517 BE614781 BE262577	Hs.30619 Hs.44234 Hs.2025 Hs.57975 Hs.289047 Hs.323822 Hs.10283 Hs.155530 Hs.139851 Hs.46744 Hs.306201 Hs.31931 Hs.283558 Hs.2910	4.1 4.1 4.1 4.1 4.1 4.1 4.1 4.1 4.1 4.1	2583 6724 3352 7336 3139 3140 7152 2210 2211 6446 412 5100 175 4918 2669 2670 6785 4214 8073 2082 6358 1985 6288 3076 3077 7100 2785 2786 6869 4395 8221 3033 7066 2847 2848 6914
50 55	438708 435575 426363 410036 407874 430255 451149 425289 424665 434815 431448 453149 434203 432169 418400	ESTs Homo sapiens phenylalkylamine binding priggering receptor expressed on myelol triagering receptor expressed on myelol transforming growth factor, beta 3 calsequestrin 2 (cardiac muscle) Homo sapiens cDNA FLJ14059 fis, clone Homo sapiens mRNA for KIAA1551 proteir RNA binding motif protein 8B interferon, gamma-inducible protein 16 caveolin 2 core1 UDP-galactose:N-acetylgalactosamhypothetical protein DKFZp56401278 DKFZP434G145 protein PRO1855 phosphoribosyl pyrophosphate synthetase KIAA0246 protein	AA806106 DE279778 AF213457 M58524 R57171 H AI766311 in, AK000703 AL047586 AW139342 AW368576 ii AF155582 AL137517 BE614781 BE262677 is Y00971 BE243026	Hs.30619 Hs.44234 Hs.2025 Hs.57975 Hs.289047 Hs.323822 Hs.10283 Hs.155530 Hs.139851 Hs.46744 Hs.306201 Hs.31931 Hs.283558 Hs.2910 Hs.301989	4.1 4.1 4.1 4.1 4.1 4.1 4.1 4.1 4.1 4.1	2583 6724 3352 7336 3139 3140 7152 2210 2211 6446 412 5100 175 4918 2669 2670 6785 4214 8073 2082 6358 1985 6288 3076 3077 7100 2785 2786 6869 4395 8221 3033 7066 2847 2848 6914 1234 5739
50	438708 435575 426363 410036 407874 430255 451149 425289 424665 434815 431448 453149 434203 432169 418400 418990	ESTs Homo sapiens phenylalkylamine binding pringgering receptor expressed on myeloi transforming growth factor, beta 3 calsequestrin 2 (cardiac muscle) Homo sapiens cDNA FLJ14059 fis, clone Homo sapiens mRNA for KIAA1551 proteir RNA binding moitif protein 8B interferon, gamma-inducible protein 16 caveolin 2 core1 UDP-galactose:N-acetylgalactosamhypothetical protein DKFZp564O1278 DKFZP434G145 protein PRO1855 phosphoribosyl pyrophosphate synthetase KIAA0246 protein proteasome (prosome, macropaln) subunil proteasome (prosome, macropaln) subunil	AA806106 DE279778 AF213457 M58524 R57171 H AI766311 in, AK000703 AL047586 AW139342 AL37517 BE614781 BE262677 \$700971 BE243026 it BE410285	Hs.30619 Hs.44234 Hs.2025 Hs.57975 Hs.289047 Hs.323822 Hs.10283 Hs.155530 Hs.139851 Hs.306201 Hs.306201 Hs.2910 Hs.2910 Hs.2910 Hs.301989 Hs.89545	4.1 4.1 4.1 4.1 4.1 4.1 4.1 4.1 4.1 4.1	2583 6724 3352 7336 3139 3140 7152 2210 2211 6446 412 5100 175 4918 2669 2670 6785 4214 8073 2082 6358 1985 6288 3076 3077 7100 2785 2786 6869 4395 8221 3033 7066 2847 2848 6914 1234 5739 1289 5780
50 55	438708 435575 426363 410036 407874 430255 451149 425289 424665 434815 431448 453149 434203 432169 418400 418900 452281	ESTs Homo sapiens phenylalkylamine binding priggering receptor expressed on myelol triggering receptor expressed on myelol transforming growth factor, beta 3 calsequestrin 2 (cardiac muscle) Homo sapiens cDNA FLJ14059 fis, clone Homo sapiens cDNA FLJ14059 fis, clone Homo sapiens mRNA for KIAA1551 protein RNA binding motif protein 8B interferon, gamma-inducible protein 16 caveolin 2 core 1 UDP-galactose:N-acetylgalactosamhypothetical protein DKFZp56401278 DKFZP434G145 protein PRO1855 phosphoribosyl pyrophosphate synthetase KIAA0246 protein proteasome (prosome, macropaln) subuni Homo sapiens cDNA FLJ11041 fis, clone	AA806106 DE279778 AF213457 M58524 R57171 H AI766311 in, AK000703 AL047586 AW139342 AW368576 if AF155582 AL137517 BE614781 BE262677 a Y00971 BE243026 It BE410285 P T93500	Hs.30619 Hs.44234 Hs.2025 Hs.57975 Hs.289047 Hs.323822 Hs.10283 Hs.155530 Hs.139851 Hs.46744 Hs.306201 Hs.31931 Hs.283558 Hs.2910 Hs.301989 Hs.89545 Hs.28792	4.1 4.1 4.1 4.1 4.1 4.1 4.1 4.1 4.1 4.1	2583 6724 3352 7336 3139 3140 7152 2210 2211 6446 412 5100 175 4918 2669 2670 6785 4214 8073 2082 6358 1985 6288 3076 3077 7100 2785 2786 6869 4395 8221 3033 7066 2847 2848 6914 1234 5739 1239 5780 4309 8149
50 55	438708 435575 426363 410036 407874 430255 451149 425289 424665 434815 431448 453149 434203 432169 418400 418990 418990 448603	ESTs Homo sapiens phenylalkylamine binding p triggering receptor expressed on myelol transforming growth factor, beta 3 calsequestrin 2 (cardiac muscle) Homo sapiens cDNA FLJ14059 fis, clone Homo sapiens cDNA FLJ14059 fis, clone Homo sapiens mRNA for KIAA1551 protei RNA binding motif protein 8B interferon, gamma-inducible protein 16 caveolin 2 core 1 UDP-galactose:N-acelylgalactosam hypothetical protein DKFZp56401278 DKFZP43G145 protein hypothetical protein PR01855 phosphoribosyl pyrophosphate synthetase KIAA0246 protein proteasome (prosome, macropaln) subunl Homo sapiens cDNA FLJ11041 fis, clone DNA segment on chromosome X and Y (u	AA806106 DE279778 AF213457 M58524 R57171 H AI766311 In, AK000703 AL047586 AW139342 AW368576 II AF165582 AL137517 BE614781 BE262677 AY00971 BE243028 II BE410285 P T93500 Iniq L03426	Hs.30619 Hs.44234 Hs.2025 Hs.57975 Hs.289047 Hs.323822 Hs.10283 Hs.155530 Hs.139851 Hs.46744 Hs.306201 Hs.31931 Hs.283558 Hs.2910 Hs.301989 Hs.89545 Hs.28792 Hs.2955	4.1 4.1 4.1 4.1 4.1 4.1 4.1 4.1 4.1 4.1	2583 6724 3352 7336 3139 3140 7152 2210 2211 6446 412 5100 175 4918 2669 2670 6785 4214 8073 2082 6358 1985 6288 3076 3077 7100 2785 2786 6869 4395 8221 3033 7066 2847 2848 6914 1234 5739 1289 5780 4309 8149 4017 4018 7911
50 55 60	438708 435575 426363 410036 407874 430255 451149 425289 424665 434815 431448 453149 434203 432169 418400 418990 452281 448603 432842	ESTs Homo sapiens phenylalkylamine binding pringgering receptor expressed on myelol triaggering receptor expressed on myelol transforming growth factor, beta 3 calsequestrin 2 (cardiac muscle) Homo sapiens cDNA FLJ14059 fis, clone Homo sapiens mRNA for KIAA1551 protein RNA binding motif protein 8B interferon, gamma-inducible protein 16 caveolin 2 core1 UDP-galactose:N-acetylgalactosamhypothetical protein DKFZp56401278 DKFZP434G145 protein hypothetical protein PR01855 phosphoribosyl pyrophosphate synthetase KIAA0246 protein proteasome (prosome, macropaln) subunil Homo sapiens cDNA FLJ11041 fis, clone DNA segment on chromosome X and Y (uhypothetical protein MGC4485	AA806106 DE279778 AF213457 M58524 R57171 H AI766311 in, AK000703 AL047586 AW139342 AW368576 ii AF155582 AL137517 BE614781 BE262677 BY00971 BE243026 II BE243026 II BE410285 II BE410285 II BE410285 II BE410285 AU364064093	Hs.30619 Hs.44234 Hs.2025 Hs.57975 Hs.289047 Hs.323822 Hs.10283 Hs.155530 Hs.139851 Hs.46744 Hs.306201 Hs.31931 Hs.283558 Hs.2910 Hs.301989 Hs.89545 Hs.28792 Hs.21595 Hs.21595 Hs.234822	4.1 4.1 4.1 4.1 4.1 4.1 4.1 4.1 4.1 4.1	2583 6724 3352 7336 3139 3140 7152 2210 2211 6446 412 5100 175 4918 2669 2670 6785 4214 8073 2082 6358 1985 6288 3076 3077 7100 2785 2786 6869 4395 8221 3033 7066 2847 2848 6914 1234 5739 1289 5780 4309 8149 4017 4018 7911 2911 6966
50 55 60	438708 435575 426363 410036 407874 430255 451149 425289 424665 434815 431448 453149 434203 432169 418400 418990 452281 448503 432842 431124	ESTs Homo sapiens phenylalkylamine binding priggering receptor expressed on myelol transforming growth factor, beta 3 calsequestrin 2 (cardiac muscle) Homo sapiens cDNA FLJ14059 fis, clone Homo sapiens mRNA for KIAA1551 protein RNA binding molif protein 8B interferon, gamma-inducible protein 16 caveolin 2 core1 UDP-galactose:N-acelylgalactosamhypothetical protein DKFZp56401278 DKFZP434G145 protein PRO1855 phosphoribosyl pyrophosphate synthetase KIAA0246 protein protein protein protein protein proteasome (prosome, macropain) subunit homo sapiens cDNA FLJ11041 fis, clone DNA segment on chromosome X and Y (uhypothetical protein MGC4485 doublesex and mab-3 related transcripti	AA806106 DE279778 AF213457 M58524 R57171 H AI766311 in, AK000703 AL047586 AW139342 AW368576 i AF155582 AL137517 BE614781 BE262677 3 Y00971 BE243026 It BE410285 P T93500 miq L03426 AW674093 AF284221	Hs.30619 Hs.44234 Hs.2025 Hs.57975 Hs.289047 Hs.323822 Hs.10283 Hs.155530 Hs.139851 Hs.46744 Hs.306201 Hs.31931 Hs.28358 Hs.2910 Hs.301989 Hs.89545 Hs.28792 Hs.21595 Hs.334822 Hs.59506	4.1 4.1 4.1 4.1 4.1 4.1 4.1 4.1 4.1 4.1	2583 6724 3352 7336 3139 3140 7152 2210 2211 6446 412 5100 175 4918 2669 2670 6785 4214 8073 2082 6358 1985 6288 3076 3077 7100 2785 2786 6869 4395 8221 3033 7066 2847 2848 6914 1234 5739 1289 5780 4309 8149 4017 4018 7911 2911 6966 2753 2754 6843
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50 55 60	438708 435575 426363 410036 407874 430255 451149 425289 424665 434815 431448 453149 434203 432169 418400 418990 452281 448603 432842 431124 449609	ESTs Homo sapiens phenylalkylamine binding pringgering receptor expressed on myelol triggering receptor expressed on myelol transforming growth factor, beta 3 calsequestrin 2 (cardiac muscle) Homo sapiens cDNA FLJ14059 fis, clone Homo sapiens cDNA FLJ14059 fis, clone Homo sapiens mRNA for KIAA1551 protein RNA binding motif protein 8B interferon, gamma-inducible protein 16 caveolin 2 core 1 UDP-galactose:N-acelylgalactosamhypothetical protein DKFZp56401278 DKFZP434G145 protein PRO1855 phosphoribosyl pyrophosphate synthetase KIAA0246 protein proteasome (prosome, macropaln) subunithomo sapiens cDNA FLJ11041 fis, clone DNA segment on chromosome X and Y (uhypothetical protein MGC4485 doublesex and mab-3 related transcripting uanine nucleotide binding protein (G p zinc finger protein 294	AA806106 DE279778 AF213457 M58524 R57171 H AI766311 in, AK000703 AL047586 AW139342 AW368576 i AF155582 AL137517 BE614781 BE262677 3 Y00971 BE243026 It BE410285 P T93500 miq L03426 AW674093 AF284221	Hs.30619 Hs.44234 Hs.2025 Hs.57975 Hs.289047 Hs.323822 Hs.10283 Hs.155530 Hs.139851 Hs.46744 Hs.306201 Hs.31931 Hs.283558 Hs.2910 Hs.301989 Hs.89545 Hs.28792 Hs.21595 Hs.334822 Hs.59506 Hs.288773	4.1 4.1 4.1 4.1 4.1 4.1 4.1 4.1	2583 6724 3352 7336 3139 3140 7152 2210 2211 6446 412 5100 175 4918 2669 2670 6785 4214 8073 2082 6358 1985 6288 3076 3077 7100 2785 2786 6869 4395 8221 3033 7066 2847 2848 6914 1234 5739 1289 5780 4309 8149 4017 4018 7911 2911 6966 2753 2754 6843 4099 7980 1639 1640 6039
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	448413	gb:zw20f11.s1 Soares ovary tumor NbHOT AA430373	0.12011	4.0	65 4832	
	406782 424006	CD84 antigen (leukocyte antigen) AF054815 H	ls.137548	4.0	1885 1886 6219	
	427668		ls.180191	4.0	2357 6551	
35	423201	growth hormone receptor NM_000163 Hs		4.0	1782 1783 6146	
55	413995		ls.75671	4.0	761 5373	
	429614		ls.211539	4.0	2588 6727	
	433545	ESTs AAB68510 H	ls.112496	4.0	2986 7025	
	426482	gb:EST92649 Skin tumor I Homo sapiens c AA379768		4.0	2237 6464	
40	422451	ESTs. Weakly similar to S65657 alpha-1C AA310753	ls.72988	4.0	1684 6072	
	408106	Homo sapiens cDNA FLJ12417 fis, clone M AW152449 F	ts.226469	4.0	191 4933	
	417636	ESTs R08916	ts.191212	4.0	1142 5668	
	436555		ls.304646	4.0	3200 7202	
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45	453046	ESTs, Highly similar to CA5B_HUMAN CARB AA284040	HS.31535	3.9	4385 8212	
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	437390		Hs.112607	3.7	3257 7253 1513 5951	
	421170	20.0	Hs.126052 Hs.214678	3.7 3.6	3775 7712	
50	445492			3.6	4592 8388	
50	459362	gb:EST386176 MAGE resequences, MAGM Hom AW974	1073	3.6	4768	
	405004	interteukin enhancer binding factor 1 Homo sapiens cDNA FLJ13136 fis, clone N R44714	Hs.106795	3.6	3812 7741	
	446028	ESTs AW043921	Hs.130526	3.6	3099 7118	
	435039 458474		Hs.143202	3.5	4575 8372	
55	457976		Hs.121846	3.4	4564 8361	
55	421060	ESTs AA810953	Hs.89104	3.4	1502 5941	
	420147		Hs.88109	3.2	1421 5882	
	437571	ESTs AA760894	Hs.125350	3.1	3271 7265	
	459034	ESTs BE550133	Hs.277254	3.0	4589 8385	
60	408660	ESTs, Moderately similar to PC4259 ferr AA525775	Hs.89040	3.0	247 4977	
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85	Ref:		munin are G	CHUCHA IOUN	mer (et) norman. Comment a et es. Televe te die pr	
		The DNA				

sequence of human chromosome 22." Dunham I. et al., Nature (1999) 402:489-495. Indicates DNA strand from which exons were predicted. Strand: indicates nucleotide positions of predicted exons. Nt_position: 5 Nt_position Strand Pkey 104646-104819 405001 6015406 Minus 62554-62712,69449-69602 6862650 Minus 403593 169894-170193,170504-170806 8954241 Ptus 403088 148495-148806 Minus 400499 9796071 146180-146294 155749-156048,156142-156459 10 401403 7710966 Ptus 403081 8954241 Plus 96277-96420,96979-97160 8469090 Minus 401566 169511-169795 8954241 Plus 403087 9797889 118979-119086 Plus 402507 15 136688-137096 Phis 8954241 403071 116229-116371,117512-117651 9256180 406387 Pius 64099-64260 403362 8571772 Phis 124054-124209 401961 4581193 Minus 169170-169412 403086 8954241 Pius 20 130806-131036 402621 9930950 Plus 110326-110491 402408 9796239 Minus 137102-137224,137698-137821 405259 7329310 Plus 43081-43229 404977 3738341 Minus 472381-472528,474170-474277,475328-47554 6981824 Plus 400528 25 59763-59909 402855 9662953 Minus 143375-143561 403074 8954241 Ptus 7230870 95177-95435 403291 Plus 8318556 Plus 58962-59294 402685 49996-50346 400517 9796686 Minus 30 400991 8096825 Plus 159197-159320 34617-34928 406519 3962489 Plus 53526-53628,55755-55920,57530-57757 402474 7547175 Minus 405004 6015406 Minus 186054-186365 35 TABLE 5A Unique Eos probeset identifier number Pkey: Gene name: Unigene gene title 40 Exemplar Accession number, Genbank accession number Accession: UniGene: Unigene number 95th percentile of synovial sarcoma Als divided by the 50th percentile of normal tissue Als, where the 10th percentile of normal tissue RATIO: Als was subtracted from both the numerator and denominator nucleic acid and protein sequences provided on CD for search purposes SEQID#: 45 SEQ ID# RATIO Pkey Gene Name Accession UniGene Hs.95972 1431 5891 420208 silver (mouse homolog) like BE276055 25.1 4235 8089 Wnt inhibitory factor-1 H83294 Hs.284122 17.5 451497 4357 4358 8188 preferentially expressed antigen in mel U65011 Hs.30743 16.5 452838 50 -3500 7475 cellular retinoic acid-binding protein W29092 Hs.346950 16.3 441134 3748 7692 sine oculis homeobox (Drosophila) homol Al299144 Hs.101937 16.1 445160 prostate differentiation factor Al186431 Hs.296638 14.8 1681 6070 422424 H67546 Hs.49768 14.8 1364 5837 419628 ESTs J05070 Hs.151738 14.1 1986 1987 6289 424687 matrix metalloproteinase 9 (gelatinase 55 immunoglobulin kappa constant X59135 Hs.156110 12.9 3193 3194 7198 436485 hypothetical protein MGC2827 AA425467 Hs.8035 12.6 4302 8142 452223 collagen, type II, alpha 1 (primary ost apolipoprotein C-II Hs.81343 12.5 1084 1085 5625 417153 X57010 N49813 Hs.75615 12.3 753 5367 413916 chitinase 3-like 1 (cartilage glycoprot cancer/festis antigen (NY-ESO-1) Hs.75184 676 5308 AL035737 12.3 413063 NM 001327 Hs.8 7225 12.2 1269 1270 5765 60 418678 ESTs; hypothetical protein for IMAGE:44 VGF nerve growth factor inducible AW664964 Hs.128899 12.1 3551 7523 442117 NM_003378 Hs.1 71014 2255 2256 6475 11.9 426600 chitinase 1 (chitotriosidase) U29615 Hs.91093 11.9 1351 1352 5829 419556 X72755 Hs.77367 11.6 874 875 5464 414812 monokine induced by gamma interferon 3920 3921 7831 65 X77343 Hs.334334 11.0 transcription factor AP-2 alpha 447377 dopachrome tautomerase (dopachrome delt NM_001922 Hs.301865 2682 2683 6795 10.3 430377 3878 3879 7797 small inducible cytokine subfamily A (C AR012113 Hs. 16530 10.3 446921 2834 2835 6904 431958 cadherin 3, type 1, P-cadherin (placent X63629 Hs.2877 10.2 4762 404854 Target Exon 10.1 2251 2252 6473 70 tyrosinase (oculocutaneous albinism IA) NM 000372 Hs.2 053 10.0 426555 2435 6614 Al249368 Hs.98558 10.0 428398 2510 2511 6670 Hs.227817 99 429083 BCL2-related protein A1 Y09397 Hs.132863 4136 8011 Zic family member 2 (odd-paired Drosoph AW969781 450149 9.8 4448 8265 453837 baculoviral IAP repeat-containing 7 (li AL138387 Hs.256126 9.7 39 40 4818 75 406663 immunoglobulin heavy constant mu U24683 9.7 Hs.114948 Hs.348805 1669 1670 6062 422311 cytokine receptor-like factor 1 AF073515 9.6 Human DNA sequence from clone RP11-234G N93227 4163 8031 450390 9.5 2196 2197 6437 delta-like hornolog (Drosophila) U15979 Hs.169228 9.4 426300 2421 2422 6603 4566 8363 complement component 2 M26301 Hs.2253 9.3 428289 80 458079 Homo sapiens similar to RIKEN cDNA 2810 AI796870 Hs.381220 9.2 2980 2981 7021 U29195 Hs.3281 433447 neuronal pentraxin II 9.1 2827 2828 6900 small inducible cytokine subfamily A (C Y16645 Hs.271387 9.0 431830 217 218 4952 AF123050 Hs.44532 9.0 408380 diublguitin ephrin-B3 9.0 4714 403349 633 5270 85 AW016610 Hs.816 412719

Hs.279851

8.9

W94322

2913 6968

FSTs

432874

melanoma inhibitory activity

	497597					
	427527 427634	immunoglobulin heavy constant mu	A1809057	Hs.153261	8.9	2340 6536 ·
	451668	hypothetical protein MGC10820 cartilage acidic protein 1	Al399745	Hs.18449	8.8	2352 6546
_	412104	Homo saplens, Similar to RIKEN cDNA 2	Z43948 121 AW205107	Hs.326444	8.8 8.8	4242 8094 569 5220
5	418054	lysyl oxidase-like 2	NM_002318		8.8	1184 1185 5702
	424001	paternally expressed 10	W67883	Hs.137476	8.7	1882 6217
	430822	glyceraldehyde-3-phosphate dehydrogen	as AJ005371	Hs.248017	8.7	2729 2730 6827
	419833	Homo sapiens tryptophanyl-tRNA synthe	ta AA251131	Hs.220697	8.7	1388 5856
10	447499	protocadherin beta 16	AW262580	Hs.147674	8.6	3934 7842
10	418506	Unknown protein for MGC:29643 (former		Hs.372651	8.6	1247 5748
	434449 417308	hypothetical protein FLJ22041 similar t	AW953484	Hs.3849	8.5	3057 7083
	447210	KIAA0101 gene product phosphalidylserine-specific phospholipa	H60720	Hs.81892	8.4	1094 5634
	416640	neuron-specific protein	AF035269 BE262478	Hs.17752 Hs.13406	8.4 8.4	3902 3903 7818 1019 5576
15	407233	carcinoembryonic antigen-related cell a	X16354	Hs.50964	8.3	126 127 4877
	417389	midkine (neurite growth-promoting facto	BE260964	Hs.82045	8.3	1109 5647
	408915	heptacellular carcinoma novel gene-3 pr	NM_016651		8.2	274 275 4998
	409361	sine oculis homeobox (Drosophila) homo	NM_005982	Hs.5 4416	8.2	344 345 5049
20	437898	ESTs	W81260	Hs.43410	8.0	3293 7286
20	406837	Immunoglobulin kappa constant	R70292	Hs.156110	7.9	69 4836
	418867	msh (Drosophila) homeo box homolog 2	D31771	Hs.89404	7.9	1277 1278 5772
	406672	major histocompatibility complex, class	M26041	Hs.198253	7.9	43 44 4820
	441633 428227	normal mucosa of esophagus specific 1	AW958544	Hs.112242	7.8	3529 7501
25	424170	small inducible cytokine subfamily B (C	AA321649	Hs.2248	7.7	2410 6593
23	421563	hypothetical protein MGC2827 granulysin	AA337449 NM_006433	Hs.8035	7.7	1908 6236
	421592	bagpipe homeobox (Drosophila) homolog		Hs.105941	7.7 7.7	1561 1562 5983
	438915	Williams-Beuren syndrome chromosome	ren AA280174	He 355711	7.7 7.6	1569 1570 5988 3365 7348
	424800	MyoD family inhibitor	AL035588	Hs.153203	7.6	2002 2003 6300
30	409103	XAGE-1 protein	AF251237	Hs.112208	7.6	304 305 5021
	402992	Target Exon			7.6	4700
	406684	carcinoembryonic antigen-related cell a	X16354	Hs.50964	7.6	126 127 4822
	418064	S100 calcium-binding protein, beta (neu	BE387287	Hs.83384	7.6	1188 5705
25	442711	hypothetical protein	AF151073	Hs.8645	7.5	3579 3580 7549
35	410361	guanylate binding protein 1, interferon	BE391804	Hs.62661	7.5	456 5132
•	440042	ESTs	AI073387	Hs.133898	7.4	3448 7430
	418140 411027	microfibrillar-associated protein 2	BE613836	Hs.83551	7.4	1196 5713
	446619	laukocyte immunoglobulin-like receptor, secreted phosphoprotein 1 (osteopontin,	AF072099	Hs.67846	7.3	509 510 5170
40	434175	ESTs	AU076643 AW979081	Hs.313	7.3	3861 7782
	431779	apolipoprotein C-I	AW971178	Hs.165469 Hs.268571	7.3 7.3	3032 7065 2820 6894
	452203	transporter 1, ATP-binding cassette, su	X57522	Hs.352018	7.3	4298 4299 8140
	419741	ubiquitin carrier protein E2-C	NM_007019		7.3	1379 1380 5850
4 =	406698	major histocompatibility complex, class	X63068	Hs.73931	7.2	51 52 4824
45	417355	endothelin receptor type B	D13168	Hs.82002	7.2	1100 1101 5640
	448357	RAB38, member RAS oncogene family	N20169	Hs.108923	7.2	3994 7893
	417437	interferon regulatory factor 4	U52682	Hs.82132	7.2	1123 1124 5656
	427558	growth differentiation factor 10	D49493	Hs.2171	7.2	2345 2346 6540
50	420267 432247	ESTs ESTs	N37030	Hs.173337	7.2	1441 5898
50	432800	AIM-1 protein	AA531287 BE391046	Hs.105805	7.2	2859 6923
	452862	ADAMTS2 (a disintegrin-like and metall		Hs.278962 Hs.8687	7.1 7.1	2909 6964 4360 8190
	414312	ESTs	AA155694	Hs.191060	7.0	800 5407
	421815	membrane protein CH1	AW592146	Hs.108636	7.0	1598 6009
55	448140	BCM-like membrane protein precursor	AF146761	Hs.20450	7.0	3980 3981 7882
	409327	collagen, type IX, alpha 3	L41162	Hs.53563	7.0	341 342 5047
	427961	ESTs	AW293165	Hs.143134	6.9	2388 6575
	415989	ESTs	AI267700	Hs.351201	6.9	962 5530
60	415052	mesenchyme homeo box 2 (growth arrest			6.9	904 905 5485
00	443184	ESTs ESTs	A1638728	Hs.135159	6.8	3607 7574
	414299 424326	ADAM-like disintegrin protease, decysin	AA142989	Hs.71730	6.8	799 5406
	409007	Homo saplens mRNA; cDNA DKFZp4346	100 C 14413	∏3.143230 1∩7 He ∧0501	6.7 9.67	1934 1935 6252 292 5012
	410889	twist (Drosophila) homolog (acrocephalo	X91662	Hs.66744	6.7	501 502 5164
65	447674	cyclin-dependent kinase 2	BE270640	Hs.19192	6.6	3947 7854
	406367	NM_022357:Homo sapiens putative meta	llo		6.6	4804
	438568	major histocompatibility complex, class	R98865	Hs.11135	6.6	3336 7324
	421458	carbohydrate (keratan sulfate Gai-6) su	NM_003654		6.6	1543 1544 5972
70	414821	Fc fragment of IgG, high affinity la, r	M63835	Hs.77424	6.6	876 877 5465
70	407792	putative secreted ligand homologous to	A1077715	Hs.39384	6.6	162 4906
	420602 404378	regulator of G-protein signalling 20	AF060877	Hs.99236	6.5	1469 1470 5918
	426991	C7000450*:gi]7768636]dbj]BAA95483.1] (Homo sapiens cDNA FLJ10674 fis, ctone	M N AVOO1ESC	Un 24440	6.5	4746
	449969	Homo sapiens cDNA FLJ14337 fis, clone	D AM/205142	Hs.214410	6.5	2294 6502
75	418203	CDC28 protein kinase 2	X54942	Hs.83758	6.5 6.5	4123 8001 1202 1203 5719
	432098	cytochrome P450 retinoid metabolizing p		Hs.91546	6.5	2839 2840 6908
	429986	sine oculis homeobox (Drosophila) homol	. =	Hs.227277	6.5	2632 2633 6759
	453883	cofactor required for Sp1 transcription		Hs.347524	6.5	4459 8273
90	401797	Target Exon			6.5	4663
80	445337	fibronectin leucine rich transmembrane	NM_013280	Hs.1 2523	6.5	3760 3761 7701
	408212	hypothetical protein		Hs.43728	6.5	206 4945
	406868 421379	immunoglobulin heavy constant gamma 3		Hs.300697	6.5	72 4839
	421379 417370	small inducible cytokine subfamily B (C tryptophanyl-tRNA synthetase		Hs.103982	6.4	1535 1536 5967
85	417166	Paired box protein Pax-3		Hs.374466	6.4 6.4	1105 5643
	403404	Target Exon	, v 1010	Hs.42146	6.4 6.4	1088 5628
		•			47	4718

	422004					
	433001	clone HQ0310 PRO0310p1	AF217513	Hs.279905	6.4	2923 2924 6977
	412140	RAB6 Interacting, kinesin-like (rabkine	AA219691	Hs.73625	6.4	573 5223
	423673	matrix metalloproteinase 12 (macrophage	BE003054	Hs.1695	6.3	1837 6186
_	421241	transketolase-like 1	X91817	Hs.102866	6.3	1519 1520 5956
5	447217	neuropilin 2	BE465754	Hs.17778	6.3	3904 7819
	425397	topoisomerase (DNA) II alpha (170kD)	J04088	Hs.156346	6,3	2099 2100 6369
	436557	ESTs, Weakly strailar to A47582 B-cell g	W15573	Hs.271272	6.3	3201 7203
	449294	ESTs	Al651786	Hs.195045	6.3	4079 7961 ·
10	448961	ESTs	Al610643	Hs.187285	6.3	4052 7937
10	423739	ESTs	AA398155	Hs.97600	6.3	1842 6190
	416208	ESTs, Weakly similar to MUC2_HUMAN N	AUCI AW2911	68 Hs.41295	6.3	981 5548
	431290	cadherin-like 22	AF035300	Hs.264157	6.2	2771 2772 6857
	433075	sortilin 1	NM_002959	Hs.3.51872	6.2	2936 2937 6987
	406621	Immunoglobulin tambda tocus	X57809	Hs.181125	6.1	26 27 4810
15	438549	trinucleotide repeat containing 3	BE386801	Hs.21858	6.1	3331 7320
	448390	hypothetical protein	AL035414	Hs.21068	6.1	3999 7897
	428865	Bart-like homeobox 1	BE544095	Hs.164960	6.1	2485 6651
	424408	collagen, type V, alpha 1	Al754813	Hs.146428	6.1	1943 6260
	413385	indoleamine-pyrrole 2,3 dioxygenase	M34455	Hs.840	6.1	710 711 5331
20	404815	ENSP00000251989*:DJ100N22.1 (NOVE			6.0	4761
	400295	Al905687:IL-BT095-190199-019 BT095 H		Hs.348419	6.0	6 4617
	442432	hypothetical protein FLJ23468	BE093589	Hs.38178	6.0	3563 7535
	443426	chromosome 20 open reading frame 1	AF098158	Hs.9329	6.0	3621 3622 7586
	436481	HSPC150 protein similar to ubiquitin-co	AA379597	Hs.5199	6.0	3192 7197
25	422846	neutrophil cytosolic factor 1 (47kD, ch	BE513934	Hs.1583	6.0	1749 6120
	436396	wingless-type MMTV integration site fam		Hs.152213	6.0	3184 7189
	444381	hypothetical protein BC014245	BE387335	Hs.283713	5.9	3697 7652
	404030	NM_015669*:Homo sapiens protocadheria		110.2007 10	5.9	4735
	434916	Homo sapiens, Similar to RIKEN cDNA 11		Hs.284207	5.9	3091 3092 7111
30	402888	Target Exon	1174 101000	113.204207	5.9	4698
	453271	ESTs	AA903424	Hs.6786	5.9	4409 8232
	409637	Homo saplens mRNA; cDNA DKFZp434K				372 5069
	403857	Target Exon	.0021 (701020	J-10 113.55-107	5.8	4730
	422910	Human DNA sequence from PAC 257A7	nn ch A126950	R He 101070		1758 6127
35	441544	ESTs	AW300043	Hs.127137	5.8	3523 7496
55	415323	neutrophil cytosolic factor 2 (65kD, ch	BE269352	Hs.949	5.8	
	409415	Homo sapiens cDNA: FLJ21028 fis, clone			5.8	923 5499
	433068	sialyltransferase		Hs.6083	5.8	347 5051
	430643	MEGF10 protein	NM_006456			2934 2935 6986
40	407826	calpain 3, (p94)	AW970065	Hs.287425	5.8	2717 6817
10	441859	interleukin-4 induced gene-1 protein (F	AA128423	Hs.40300	5.8	167 4911
	447414	neuroblastoma (nerve tissue) protein	AW194364	Hs.380444	5.8	3540 7512
	457869	Homo sapiens, alpha-1 (VI) collagen	D82343	Hs.74376	5.8	3924 3925 7834
	451766 -	ephrin-B3	AU077186	Hs.108885	5.8	4561 8359
45	448719	trinucleotide repeat containing 3	NM_001406			4255 4256 8104
73	413794	myosin X	AA033627	Hs.21858	5.8	4028 7920
	452620	ESTs	AF234532	Hs.61638	5.7	741 742 5357
	411252		AA436504	Hs.119286	5.7	4338 8172
	427528		AB018549	Hs.69328	5.7	521 522 5181
50	423013	minichromosome maintenance deficient (secreted modular calcium-binding protei		Hs.179565	5.7	2341 6537
50	446291		AW875443	Hs.22209	5.7	1769 6135
	425234	interferon, gamma-inducible protein 30	BE397753	Hs.14623	5.7	3833 7760
	420028	ESTs, Weakly similar to 138022 hypothet		Hs.165909	5.6	2070 6349
	405542	carbohydrate (N-acetylglucosamine-6-0)	AB014680	Hs.8786	5.6	1408 1409 5872
55		Target Exon KIAA0442 protein	40007000	11- 00400	5.6	4789
55	453173 437044		AB007902	Hs.32168	5.6	4397 4398 8223
	428484	differentially expressed in Fanconi's a solute carrier family 7 (cationic amino	AL035864	Hs.69517	5.6	3233 7232
	440650		AF104032	Hs.184601	5.6	2449 2450 6624
	449722	Human DNA sequence from PAC 75N13 c cyclin B1		Hs.326801	5.6	3477 7455
60	435124	ESTs	BE280074 AA725362	Hs.23960	5.6	4112 7990
00	429359	matrix metalloproteinase 14 (membrane-i		Hs.75514	5.6	3107 7125
	421633	sorting nexin 10	AF121860	Hs.2399 Hs.106260	5.6 5.6	2551 6702 1572 1573 5990
	426514	bone morphogenetic protein 7 (osteogeni		Hs.170195	5.6	
	436608	down syndrome critical region protein D	AA628980		5.6	2246 6470
65	418110	hypothetical protein FLJ22202		Hs.192371		3205 7207
03	427923	FGENESH predicted 11 TM protein	R43523 AW274357	Hs.217754 Hs.301406	5.6	1193 5710
	429903	cyclin-dependent kinase 5, regulatory s	AL134197	Hs.93597	5.6 5.6	2385 6572
	451763	hypothetical protein FLJ14220	AW294647	Hs.233634	5.6	2616 6746
	408209	ets variant gene 5 (ets-related molecul	NM_004454		5.6	4254 8103
70	443378	proteasome (prosome, macropain) subuni		Hs.381081	5.6	204 205 4944
, 0	452194	olfactory receptor, family 2, subfamily	Al694413		5.6	3618 7584
	452363	Homo sapiens, Similar to complement cor		Hs.373599 Hs.94953	5.6	4295 8137
	438746	Human melanoma-associated antigen p97		Hs.184727	5.5	4322 8159 3353 7337
		dual specificity phosphatase 4	NM_001394		5.5	
75	429170	pooriionj priospitatasa 4		Hs.135159	5.5	2524 2525 6680 1321 5805
	429170 419236	Homo saniens cONA EL 111481 fis close	M DD (CIM/ /		4.4	1321 3003
, ,	419236	Homo sapiens cDNA FLJ11481 fis, clone transducin-like enhancer of solit 1, ho				
75	419236 452319	transducin-like enhancer of split 1, ho	M99435	Hs.28935	5.5	4313 4314 8152
75	419236 452319 406782	transducin-like enhancer of split 1, ho gb:zw20f11.s1 Soares ovary tumor NbHO	M99435 T AA430373	Hs.28935	5.5 5.5	4313 4314 8152 65 4832
	419236 452319 406782 430439	transducin-like enhancer of split 1, ho gb:zw20f11.s1 Soares ovary turnor NbHO DKFZP4348061 protein	M99435 T AA430373 AL133561	Hs.28935 Hs.380155	5.5 5.5 5.5	4313 4314 8152 65 4832 2695 2696 6803
	419236 452319 406782 430439 453392	transducin-like enhancer of split 1, ho gb:zw20f11.s1 Soares ovary tumor NbHO DKFZP4348061 protein SRY (sex determining region Y)-box 11	M99435 T AA430373 AL133561 U23752	Hs.28935 Hs.380155 Hs.32964	5.5 5.5 5.5 5.5	4313 4314 8152 65 4832 2695 2696 6803 4416 4417 8239
80	419236 452319 406782 430439 453392 420842	transducin-like enhancer of split 1, ho gb:zw2011.s1 Soares ovary tumor NbHO DKFZP434B061 protein SRY (sex determining region Y)-box 11 hypothetical protein MGC10986	M99435 T AA430373 AL133561 U23752 Al083668	Hs.28935 Hs.380155 Hs.32964 Hs.50601	5.5 5.5 5.5 5.5 5.5	4313 4314 8152 65 4832 2695 2696 6803 4416 4417 8239 1485 5929
	419236 452319 406782 430439 453392 420842 413367	transducin-like enhancer of split 1, ho gb:zw20f11.s1 Soares ovary tumor NbHO DKFZP434B061 protein SRY (sex determining region Y)-box 11 hypothetical protein MGC10986 solute carrier family 16 (monocarboxyli	M99435 T AA430373 AL133561 U23752 AI083668 NM_006517	Hs.28935 Hs.380155 Hs.32964 Hs.50601 Hs.7 5317	5.5 5.5 5.5 5.5 5.5 5.5	4313 4314 8152 65 4832 2695 2696 6803 4416 4417 8239 1485 5929 706 707 5329
	419236 452319 406782 430439 453392 420842 413367 448985	transducin-like enhancer of split 1, ho gb:zw2011.s1 Soares ovary tumor NbHO DKFZP434B061 protein SRY (sex determining region Y)-box 11 hypothetical protein MGC10986 solute carrier family 16 (monocarboxyli carbonic anhydrase XI	M99435 T AA430373 AL133561 U23752 AI083668 NM_006517 AA324885	Hs.28935 Hs.380155 Hs.32954 Hs.50601 Hs.7 5317 Hs.22777	5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5	4313 4314 8152 65 4832 2695 2696 6803 4416 4417 8239 1485 5929 706 707 5329 4054 7939
80	419236 452319 406782 430439 453392 420842 413367 448985 412939	transducin-like enhancer of split 1, ho gb:zw2011.s1 Soares ovary turnor NbHO DKFZP434B061 protein SRY (sex determining region Y)-box 11 hypothetical protein MGC10986 solute carrier family 16 (monocarboxyli carbonic anhydræse XI eukaryotic translation elongation facto	M99435 T AA430373 AL133561 U23752 AI083668 NM_006517 AA324885 AW411491	Hs.28935 Hs.380155 Hs.32984 Hs.50601 Hs.7 5317 Hs.22777 Hs.75069	5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5	4313 4314 8152 65 4832 2695 2696 6803 4416 4417 8239 1485 5929 706 707 5329 4054 7939 657 5292
80	419236 452319 406782 430439 453392 420842 413367 448985 412939 400229	transducin-like enhancer of split 1, ho gb:zw20f1.s1 Soares ovary tumor NbHO DKFZP4348061 protein SRY (sex determining region Y)-box 11 hypothetical protein MGC10986 solute carrier family 16 (monocarboxyli carbonic anhydrase X) eukaryotic translation elongation facto NM_021724*:Homo saplens nuclear recei	M99435 T AA430373 AL133561 U23752 AI083668 NM_006517 AA324885 AW411491	Hs.28935 Hs.380155 Hs.32964 Hs.50601 Hs.7 5317 Hs.22777 Hs.75069 Hs.276916	5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5	4313 4314 8152 65 4832 2695 2696 6803 4416 4417 8239 1485 5929 706 707 5329 4054 7939 657 5292 4602
	419236 452319 406782 430439 453392 420842 413367 448985 412939	transducin-like enhancer of split 1, ho gb:zw2011.s1 Soares ovary turnor NbHO DKFZP434B061 protein SRY (sex determining region Y)-box 11 hypothetical protein MGC10986 solute carrier family 16 (monocarboxyli carbonic anhydræse XI eukaryotic translation elongation facto	M99435 T AA430373 AL133561 U23752 AI083668 NM_006517 AA324885 AW411491	Hs.28935 Hs.380155 Hs.32984 Hs.50601 Hs.7 5317 Hs.22777 Hs.75069	5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5	4313 4314 8152 65 4832 2695 2696 6803 4416 4417 8239 1485 5929 706 707 5329 4054 7939 657 5292

	406836	immunoglobulin kappa constant	AW514501	Hs.156110	5.5	68 4835
	404240	NM_018950:Homo sapiens major histocor	mpa		5.4	4742
	428949	hypothetical protein DKFZp434J0617	AA442153	Hs.104744	5.4	2490 6655
_	407846	Cbp/p300-Interacting transactivator, wi	AA426202	Hs.40403	5.4	169 4913
5	458208	ESTs, Wealdy similar to T4S4_HUMAN T	RAN Al380016	Hs.352394	5.4	4570 8367
	423639	KIAA1405 protein	AB037826	Hs.130411	5.4	1831 1832 6183
	405451	Homo saptens glutaminyl-peptide cyclotr			5.4	4783
•	400263	Eos Control		Hs.75309	5.4	4613
10	417007	chloride channel 7	AF224741	Hs.80768	5.4	1058 1059 5604
10	403402	Target Exon			5.3	4717
	418956	KIAA0788 protein	AA234831	Hs.348493	5.3	1287 5778
	452698	chemokine (C-C motif) receptor 1	NM_001295		5.3	4343 4344 8177
	424481	proteolipid protein 1 (Pelizaeus-Merzba	R19453	Hs.1787	5.3	1960 6272
15	450056	ESTs, Weakly similar to S71512 hypothet		Hs.502	5.3	4129 8005
13	416406	liporna HMGIC fusion partner-like 2	D86961	Hs.79299	5.3	1001 1002 5564
	446142	ESTs	A1754693	Hs.145968	5.3	3820 7748
	402474	NM_004079:Homo sapiens cathepsin S (5.3	4682
	411089	cell division cycle 2-like 1 (PITSLRE p	AA456454	Hs.214291	5.3	513 5173
20	406636	gb:Homo sapiens (clone WR4.12VL) anti-		L12064	5.3	32 33 4814
20	419749	sparc/osteonectin, cwcv and kazal-like	X73608	Hs.93029	5.2	1383 1384 5852
	409430	splicing factor, arginine/serine-rich 5	R21945	Hs.346735	5.2	348 5052
	416975	granzyme B (granzyme 2, cytotoxic T-lym			5.2	1052 1053 5600
	436771	ESTs	AW975687	Hs.292979	5.2	3214 7215
25	413936	serine (or cysteine) proteinase Inhibit	AF113676	Hs.297681	5.2	755 756 5369
23	418883	acid phosphatase 5, tartrate resistant	BE387036	Hs.1211	5.2	1281 5774
	456974	apolipoprotein E	M12529	Hs.169401	5.2	4536 4537 8338
	410011	PFTAIRE protein kinase 1	AB020641	Hs.57856	5.2	406 407 5096
	448075	ESTs, Weakly similar to alpha-1 type 2	AW583284	Hs.286747	5.2	3975 7877
30	443907 443021	TYRO protein tyrosine kinase blinding pr	AU076484	Hs.9963	5.2	3656 7617
50	407239	lg superfamily protein	AA368546	Hs.8904	5.2	3593 7561
	425262	leukocyte immunoglobulin-like receptor,	AA076350	Hs.67846	5.1	129 4879
	422836	GS3955 protein	D87119	Hs.155418	5.1	2076 2077 6354
	417728	AKAP-binding sperm protein ropporin KIAA1573 protein	AL037365 AW138437	Hs.194093	5.1	1748 6119 1151 5675
35	432485	CDW52 antigen (CAMPATH-1 antigen)		Hs.24790	5.1	
33	424825		N90866	Hs.276770	5.1	2877 6939
	443071	procollagen-lysine, 2-oxoglutarate 5-di - complement component 1, q subcompone	AF207069	Hs.153357	5.1	2005 2006 6302
	432693	ESTs	AW449630	Hs.293790	5.1 5.1	3598 7566
	414034	early development regulator 1 (homolog	U89277	Hs.305985	5.1	2900 6958 771 772 5381
40	409197	chromosome 11 open reading frame 24	N54706	Hs.303025	5.1 5.1	322 5035
-10	446659	ESTs	Al335361	Hs.226376	5.1	3865 7786
	419870	phosphoprotein associated with GEMs	AW403911	Hs.266175	5.1	1390 5858
	433671	19A24 protein	AW138797	Hs.132906	5.1	3000 7036
	428862	SRY (sex determining region Y)-box 9 (c	NM_000346		5.1	2483 2484 6650
45	424378	neural cell adhesion molecule 1	W28020	Hs.167988	5.1	1940 6257
	448569	signal transducer and activator of tran	BE382657	Hs.21486	5.1	4014 7909
	415752	putative transmembrane protein	BE314524	Hs.78776	5.1	945 5517
	420568	protocadherin alpha 10	F09247	Hs.247735	5.1	1462 5913
	407597	Homo sapiens brother of CDO (BOC) mR			5.0	143 4889
50	409893	minichromosome maintenance deficient (Hs.57101	5.0	397 5088
-	426418	collagen, type IV, alpha 5 (Alport synd	M90464	Hs.169825	5.0	2220 2221 6454
	438937	ESTs	AW952654	Hs.73964	5.0	3367 7350
	417796	ESTs	AA206141	Hs.367818	5.0	1159 5682
~ ~	400235	NM_005336:Homo sapiens high density li	p	Hs.177516	5.0	4604
55	436748	collagen, type VI, alpha 2	BE159107	Hs.159263	5.0	3212 7213
	403668	Target Exon	-		5.0	4727
	437330	Homo saplens mRNA; cDNA DKFZp761J	1112 (AL3539	944 Hs.50115	5.0	3253 7250
	434431	ESTs	AW131454	Hs.168571	5.0	3056 7082
C 0	453344	ESTs	BE349075	Hs.44571	5.0	4415 8238
60	453139	Human DNA sequence from clone RP11-				4394 8220
	431590	sema domain, transmembrane domain (T			5.0	2800 2801 6879
	448595	KIAA0644 gene product	AB014544	Hs.21572	5.0	4015 4016 7910
	418299	Integrin, beta 2 (antigen CD18 (p95), I	AA279530	Hs.83968	5.0	1212 5725
65	411296	growth suppressor 1	BE207307	Hs.10114	4.9	524 5183
03	438564	major histocompatibility complex, class	AA381553	Hs.198253	4.9	3335 7323
	440274	scrapie responsive protein 1	R24595	Hs.7122	4.9	3464 7443
	435461 424870	ESTs ESTs	Al075846 T15545	Hs.133996	4.9	3127 7143
	421707	lectomedin-2		Hs.244624	4.9	2014 6308
70	436291	protein regulator of cytokinesis 1	BE568452	Hs.1 07054 Hs.344037	4.9 4.0	1581 1582 5995
, 0	444090	natural killer cell group 7 sequence	S69115	Hs.10306	4.9 4.9	3180 7185 3675 3676 7634
	424340	ESTs	AA339036	Hs.7033	4.9	1937 6254
	412659	olfactomedin related ER localized prote	AW753865	Hs.74376	4.9	627 5265
	414024	gb:zm79g08.r1 Stratagene neuroepithellu		Hs.22410	4.9	769 5379
75	408161	hypothetical protein MGC3032	AW952912	Hs.300383	4.9	195 4937
	452445	Homo sapiens mRNA from chromosome 5	5a21- AR0024	38 Hs 263394	349	4332 8166
	430265	stromal cell-derived factor 1	L36033	Hs.237356	4.9	2671 2672 6786
	443254	ESTs	AW450180	Hs.65788	4.9 4.9	3612 7579
	446630	Homo sapiens mRNA; cDNA DKFZp434E	033 (f AW3RA	793 Hs 23960	4.8	3863 7784
80	409698	short stature homeobox 2	AF022654	Hs.55967	4.8	378 379 5074
-	414219	ALL1-fused gene from chromosome 1q	W20010	Hs.75823	4.8	789 5397
	435977	brain-specific membrane-anchored protei		Hs.5012	4.8	3166 7174
	414020	small inducible cytokine A4 (homologous	NM_002984		4.8	767 768 5378
0.5	427400	hypothetical protein FLJ11939	AW245084	Hs.94229	4.8	2325 6525
85	427019	hypothetical protein FLJ10970	AA001732	Hs.173233	4.8	2296 6504
	439570	ESTs, Weakly similar to ALU1_HUMAN A	LU 179925	Hs.269165	4.8	3407 7390

	420070	hundhaliad emisin El 110420	414/200004	11- 0000		0440 7404
	439979	hypothetical protein FLJ10430	AW600291	Hs.6823	4.8	3442 7424
	412507	EphA4	L36645	Hs.73964	4.8	596 597 5243
	414142	hemicentin (fibulin 6)	AW368397	Hs.334485	4.8	781 5390
5	453857 442910	Ras-induced senescence 1 (RIS1)	AL080235	Hs.35861	4.8	4449 4450 8266
,	403405	ESTs, Weakly similar to T19326 hypothet	Ai305130	Hs.11307	4.8	3589 7557
		Target Exon	MOVERC		4.8	4719 420 424 4880
	407241 410342	gb:Human omega light chain protein 14.1 Fc fragment of IgE, high affinity I, re		11- 749	4.8	130 131 4880
			R31350	Hs.743	4.8	453 5129
10	435080	hypothetical protein FLJ14428	AI831760	Hs.155111	4.8	3103 7122
10	453237	ESTs	AI969448	Hs.34578	4.8	4405 822
	424717	wingless-type MMTV integration site fam		Hs.152213	4.8	1989 6291
	413278	interferon-stimulated protein, 15 kDa	BE563085	Hs.833	4.8	695 5322
	404977	Insulin-like growth factor 2 (somatomed	V00000	11: 470004	4.8	4766
15	409208	integrin, alpha X (antigen CD11C (p150)		Hs.172631	4.8	326 327 5038
13	437862	Homo sapiens mRNA; cDNA DKFZp5860				3291 7284
	439737	Homo sapiens mRNA full length Insert cD		Hs.41271	4.8	3427 7410
	447343	ESTs, Highly similar to S02392 alpha-2-	AA256641	Hs.236894	4.8	.3916 7828
	422799	neurexophilin 4	Al933199	Hs.120911	4.8	1738 6113
20	416350	phospholipase A2, group IID	AF188625	Hs.189507	4.8	993 994 5557
20	429150	smoothened (Drosophila) homolog	AF120103	Hs.197366	4.8	2519 2520 6677
	454390	KIAA0906 protein	AB020713	Hs.56966	4.8	4497 4498 8304
	416135	ESTs	AW473656	Hs.227277	4.7	976 5543
	432878	Pirin	BE386490	Hs.279663	4.7	2914 6969
25	423232	leucine-rich neuronal protein	BE244625	Hs.125742	4.7	1787 6149
25	453914	fructose-1,6-bisphosphatase 1	NM_000507		4.7	4465 4466 8278
	421779	wingless-type MMTV integration site fam		Hs.108219	4.7	1592 6004
	418558	Fas (TNFRSF6)-associated via death don			4.7	1255 5755
	418322	cyclin-dependent kinase inhibitor 3 (CD	AA284166	Hs.84113	4.7	1214 5727
20	446051	ephrin-A3	BE048061	Hs.37054	4.7	3816 7744
30	422616	selenophosphate synthetase 2	BE300330	Hs.118725	4.7	1713 6095
	448886	hypothetical protein FLJ10357	AL137291	Hs.22451	4.7	4047 4048 7934
	425934	Homo saplens clone 25187 and 25188 mi				2155 2156 6407
	452683	progesterone membrane binding protein		Hs.374574	4.7	4341 8175
75	429612	pituitary tumor-transforming 1	AF062649	Hs.252587	4.7	2586 2587 6726
35	437723	ESTs	AI672731	Hs.13256	4.7	3282 7275
	453083	contactin associated protein 1	U87223	Hs.31622	4.7	4388 4389 8215
	418323	major histocompatibility complex, class	NM_002118	Hs.1 162	4.7	1215 1216 5728
	419113	ESTs	A1446586	Hs.21835	4.7	1305 5793
40	416801	sal (Drosophila)-like 2	X98834	Hs.79971	4.7	1032 5585
40	426076	gb:EST374787 MAGE resequences, MAC	3G Hom AW9	52714	4.7	2171 6418
	412773	similar to vaccinia virus HindIII K4L O	H15785	Hs.74573	4.7	639 5276
	455813	gb:QV2-HT0083-071299-018-a11 HT008	3 Hom BE141	577	4.7	4509 8315
	427658	nogo receptor	H61387	Hs.30868	4.7	2355 6549
4.5	4 27 337	Fc fragment of IgG, low affinity IIIb,	Z46223	Hs.176663	4.7	2318 2319 6521
45	412609	ocular albinism 1 (Nettleship-Falls)	Z48804	Hs.74124	4.7	615 616 5257
	449523	chemokine (C-C motif) receptor 5	NM_000579	Hs.5 4443	4.7	4094 4095 7976
	456508	ESTs, Weakly similar to AF208855 1 BM-		Hs.123469	4.7	4521 8325
	415019	nuclear factor of activated T-cells, cy	Al674651	Hs.77810	4.7	901 5482
50	428839	Homo saplens cDNA FLJ14814 fis, clone		Hs.82302	4.6	2480 6648
50	432383	Homo sapiens cDNA FLJ20137 fis, clone			4.6	2868 6931
	437879	hypothetical protein FLJ10305	BE262082	Hs.5894	4.6	3292 7285
	434276	leucine zipper, putative tumor suppress	AF123659	Hs.93605	4.6	3039 3040 7070
	444410	ESTs, Moderately similar to S65657 alph		Hs.33719	4.6	3699 7654
	426470	ESTs	AA528794	Hs.128644	4.6	2232 6461
55	422481	DNAX-activation protein 10	AL050163	Hs.117339	4.6	1687 1688 6075
	411789	Adlican	AF245505	Hs.72157	4.6	553 554 5207
	408561	hypothetical protein MGC13016	AI308037	Hs.84120	4.6	239 4970
	426150	BarH-like homeobox 2	NM_003658		4.6	2180 2181 6425
60	450447	hypothetical protein P15-2	AF212223	Hs.25010	4.6	4168 4169 8036
60	414747	centromere protein F (350/400kD, mitosi	บ30872	Hs.77204	4.6	861 862 5455
	400262	Eos Control		Hs.75309	4.6	4612
	422175	ESTs, Highly similar to T00391 hypothet		Hs.6382	4.6	1657 6053
	422397	MYEOV Myeloma overexpressed gene (in			4.6	1678 1679 6068
65	423897	DKFZP434N178 protein	AB033062	Hs.134970	4.6	1863 1864 6205
65	440952	ESTs	Al291804	Hs.118101	4.6	3490 7466 .
	449129	ESTs	AI631602	Hs.258949	4.6	4066 7950
	458098	metallothionein 1E (functional)	BE550224	Hs.351851	4.6	4567 8364
	414359	cadherin 11, type 2, OB-cadherin (osteo	M62194	Hs.75929	4.6	808 5413
70	439589	ESTs	AF086409	Hs.379390	4.5	3409 7392
70	439219	ESTs	N33883	Hs.41322	4.5	3382 7365
	457211	ESTs, Weakly similar to S51797 vasodila		Hs.32399	4.5	4543 8344
	410290	hypothetical protein DKFZp564A176	AA402307	Hs.322844	4.5	449 5126
	447208	hypothetical protein MGC5627	BE315291	Hs.237971	4.5	3901 7817
75	414175	hypothetical prolein DKFZp761D112	Al308876	Hs.103849	4.5	786 5394
75	429918	ESTs	AW873986	Hs.119383	4.5	2619 6748
	414875	major histocompatibility complex, class	H42679	Hs.77522	4.5	883 5469
	404277	NM_019111*:Homo sapiens major histoc			4.5	4744
	424125	inhibin, beta B (activin AB beta polype	M31669	Hs.1735	4.5	1900 1901 6230
80	400543	C10001466:gi/7299451 gb AAF54640.1			4.5	4632
οU	424247	lysozyme (renal amyloidosis)	X14008	Hs.234734	4.5	1922 1923 6244
	407049	NM_021724*:Homo sapiens nuclear rece	pto X/2632		4.5	99 100 4854
	405104	Target Exon	Drance	11 48	4.5	4771
	452242	gycosyltransferase	R50956	Hs.159993	4.5	4305 8145
85	433867	hippocalcin-like 1	AK000596	Hs.3618	4.5	3011 7046
O)	422363	replication factor C (activator 1) 3 (3	T55979	Hs.115474	4.5	1673 6065
	448386	KIAA1329 protein	AB037750	Hs.21061	4.5	3997 3998 7896

						•
	452466	hypothetical protein DKFZp564B052	N84635	Hs.29664	4.5	4334 8168
	404721	NM_005596*:Homo saplens nuclear factor)r		4.5	4759
	417079	interleukin 1 receptor antagonist	U65590	Hs.81134	4.5	1073 1074 5616
5	401357 426935	tumor protein O52-like 1 collagen, type 1, alpha 1	NM_000088	Un 172020	4.5 4.5	4650
-	415701	gamma-glutarnyl hydrolase (conjugase, fo			4.5 4.5	2288 2289 6498 940 941 5514
	437681	Homo sapiens, Similar to TEA domain far	n Al207958	Hs.166556	4.5	3280 7273
	449444	solute carrier family 16 (monocarboxyli	AW818436	Hs.351306	4.5	4088 7970
10	451678	DKFZP564D0764 protein	AA374181	Hs.26799	4.5	4244 8096
10	406648 450785	major histocompatibility complex, class Homo sapiens, alpha-1 (VI) collagen	AA563730	Hs.277477	4.5	38 4817
	402994	NM_002463*:Homo sapiens myxovirus (ii	AAB52713	Hs.108885	4.5 4.5	4193 8056 4701
	446962	muscle specific ring finger protein 1	Al351421	Hs.279709	4.5	3884 7801
1.5	416847	enhancer of filamentation 1 (cas-like d	L43821	Hs.80261	4.5	1039 1040 5590
15	435013	NM_020142:Homo saplens NADH:ubiqui		Hs.110024	4.5	3096 7115
	405770 400397	NM_002362:Homo sapiens melanoma an			4.4	4796
	420591	transcription factor 7-like 2 (T-cell s neurotrophin 3	AJ270770 X53655	Hs.99171	4.4 4.4	18 19 4624 1465 1466 5916
	422007	ESTs	Al739435	Hs.39168	4.4	1624 6029
20	429962	glutathlone S-transferase pi	M69113	Hs.226795	4.4	2626 6754
	438866	lissue inhibitor of metalloproteinase 2	U44385	Hs.6441	4.4	3360 3361 7344
	439453 408784	thyroid hormone receptor interactor 13 ESTs	BE264974	Hs.6566	4.4	3399 7382
	444863	serine (or cysteine) proteinase inhibit	AW971350 AW384082	Hs.63386 Hs.104879	4.4 4.4	257 4986 3731 7677
25	400228	NM_021724*:Homo sapiens nuclear rece		Hs.276916	4.4	4601
	439318	G protein-coupled receptor 56	AW837046	Hs.6527	4.4	3391 7374
	422034	Ets2 repressor factor	AC006486	Hs.333069	4.4	1627 1628 6032
	419081 414883	ESTs CDC28 pertoin kinner 4	A1798863	Hs.87191	4.4	1299 5788
30	450224	CDC28 protein kinase 1 collagen, type IV, alpha 6	AA926960 D21337	Hs.348669 Hs.408	4.4 4.4	885 5471 4145 4146 8017
	425308	receptor tyrosine kinase-like orphan re	M97639	Hs.155585	4.4	2087 2088 6362
	443801	Intron of: trichorhinophalangeal syndr	AW206942	Hs.253594	4.4	3646 7608
	408787	Rho guanine exchange factor (GEF) 11	NM_014784		4.4	258 259 4987
35	424735 438596	short-chain alcohol dehydrogenase famil		Hs.272499	4.4	1993 1994 6294
33	435663	ESTs ESTs	AA829427 A1023707	Hs.243081 Hs.134273	4.4 4.4	3337 7325 3143 7155
	418990	proteasome (prosome, macropain) subuni		Hs.89545	4.4	1289 5780
	411365	GM2 ganglioside activator protein	M76477	Hs.289082	4.4	528 529 5187
40	426413	gb:EST90805 Synovial sarcoma Homo sa			4.4	2219 6453
40	400205 435176	NM_006265*:Homo sapiens RAD21 (S. p ESTs		Hs.81848	4.4	4598
	448499	p53-regulated DDA3	AA744875 BE613280	Hs.189413 Hs.77550	4.4 4.4	3111 7129 · 4008 7905
	443639	proteasome (prosome, macropain) subuni		Hs.9661	4.4	3632 7595
4 =	418522	Homo sapiens cDNA: FLJ21950 fis, clone		Hs.7149	4.4	1250 5751
45	421143	immunoglobulin superfamily containing I		Hs.102171	4.4	1510 1511 5949
	430413 418216	small inducible cytokine A5 (RANTES)	AW842182	Hs.241392	4.4	2693 6801
	446751	AF15q14 protein Human DNA sequence from clone RP11-	AA662240 161 2 AA76699	Hs.283099 R He 378780	4.4	1206 5721 3871 7791
	442328	ESTs, Weakly similar to ALU4_HUMAN A	LU AI952430	Hs.150614	4.4	3556 7528
50	406973	major histocompatibility complex, class	M34996	Hs.198253	4.3	90 91 4849
	418526	solute carrier family 16 (monocarboxyli	BE019020	Hs.85838	4.3	1251 5752
	426890 417142	ESTs ESTs	AA393167	Hs.41294	4.3	2283 6494
	429716	collagen, type XIII, alpha 1	A1082507 R25685	Hs.85905 Hs.211933	4.3 4.3	1083 5624 2609 6741
55	427378	melanoma antigen, family D, 1	BE515037	Hs.177556	4.3	2322 6523
	431639	phosphoprotein associated with GEMs	AK000680	Hs.266175	4.3	2805 2806 6883
	447198	ESTs	D61523	Hs.283435	4.3	3898 7814
	448258 407047	hypothetical protein FLJ20396 gb:H.saplens SOD-2 gene for manganese	BE386983	Hs.343214	4.3	3990 7889
60	439246	membrane-associated tyrosine- and threo	AI498072	Hs.351474	4.3 4.3	98 4853 3386 7369
	439709	hypothetical protein FLJ20128	AW401433	Hs.6649	4.3	3422 7405
	404920	Target Exon			4.3	4765
	405372 412577	NM_006841:Homo sapiens transporter pr		11- 74070	4.3	4778
65	426283	CD163 antigen kynureninase (L-kynurenine hydrolase)	Z22968 NM_003937	Hs.74076	4.3 4.3	608 609 5252
	444371	forkhead box M1		Hs.239	4.3	2192 2193 6435 3696 7651
	426759	ESTs		Hs.21213	4.3	2268 6483
	436045	DKFZP56400423 protein	AB037723	Hs.5028	4.3	3169 3170 7176
70	433658 402876	immunoglobulin kappa constant	L03678	Hs.156110	4.3	2996 2997 7034
, 0	409062	NM_022161*:Homo saptens livin Inhibitor Homo saptens mRNA; cDNA DKFZp5648	182 /f Al 157/	RR 14. 50150	4.3	4697 301 5018
	406642	gb:Homo sapiens mRNA for immunoglobu	iin AJ245210	00 113.00100	4.3	34 35 4815
	423989	OLF-1/EBF associated zinc finger gene	AF221712	Hs.137168	4.3	1880 1881 6216
75	442547	ESTs, Weakly similar to ALU1_HUMAN A			4.3	3566 7537
15	422530 400802	bone marrow stromal cell antigen 2	AW972300	Hs.118110	4.3	1696 6082
	400802	Target Exon hypothetical protein FLJ21841	BE621702	Hs.29076	4.3 4.3	4638 3411 7394
	418618	GTP cyclohydrolase 1 (dopa-responsive d		Hs.86724	4.3	1261 1262 5760
00	444119	ESTs, Weakly similar to T26686 hypothet		Hs.184261	4.3	3677 7635
80	453910	Kruppel-like zinc finger protein GLIS2	AL133794	Hs.16313	4.3	4464 8277
	447737 414945	DKFZP564L0862 protein		Hs.19404	4.3	3957 3958 7861
	414945 437233	lymphocyte antigen 6 complex, locus E Homo sapiens brother of CDO (BOC) mRI	BE076358 NA DR144R	Hs.77667 Hs.339352	4.3 4.3	894 5477 3249 7246
0.7	403130	NM_005400*:Homo sapiens protein klnasi		. 13,003016	4.3 4.3	4708
85	428291	interferon stimulated gene (20kD)	AA534009	Hs.183487	4.3	2423 6604
	418283	cathepsin K (pycnodysostosis)	S79895	Hs.83942	4.3	1210 1211 5724

	449611	ESTs	A1970394	Hs.197075	4.3	4100 7981
	412014	ESTs, Weakly similar to A46010 X-linked		Hs.43761	4.3	566 5218
	439540	ESTs	AW979189	Hs.283367	· 4.3	3405 7388
-	408096	dihydrofolate reductase	BE250162	Hs.83765	4.3	189 4931
5	419073	Homo saplens cDNA FLJ12797 fis, clone	N AW372170	Hs.183918	4.2	1296 5786
	419745	slug (chicken homolog), zinc finger pro	AF042001	Hs.93005	4.2	1381 1382 5851
	406634	GDP dissociation inhibitor 1	AA386235	Hs.74576	4.2	31 4813
	454429	hypothetical protein PP3501	BE273437	Hs.301406	4.2	4500 8306
	407818	jumonji (mouse) homolog	AL021938	Hs.40154	4.2	165 4909
10	400261	Eos Control		Hs.1802	4.2	4611
	453597	myo-inositol 1-phosphate synthase A1	BE281130	Hs.381118	4.2	4429 8249
	430622	Homo sapiens, Similar to DNA segment, (Hs.247478	4.2	2714 6815
	453204	ESTs		Hs.191990	4.2	4403 8227
	412926	macrophage myristoylated atanine-rich C		Hs.75061	4.2	655 5290
15	432388	v-ski avian sarcoma viral oncogene homo			4.2	
13		gb:QV0-CT0387-170200-121-h07 CT0387		Hs.2969		2869 2870 6932
	455169				4.2	4505 8311
	424842	signal transducing adaptor molecule (SH		Hs.153487	4.2	2013 6307
	438451	ESTs	AJ081972	Hs.220261	4.2	3323 7313
20	421774	Homo saplens mRNA; cDNA DKFZp586C				1589 6001
20	418918	CD2 antigen (p50), sheep red blood cell	X07871	Hs.89476	4.2	1282 1283 5775
	452301	ESTs	BE041144	Hs.127699	4.2	4312 8151
	453779	28kD interferon responsive protein	N35187	Hs.43388	4.2	4441 8259
	427239	ubiquitin carrier protein	BE270447	Hs.356512	4.2	2311 6515
~ ~	443572	cleavage and polyadenylation specific f	AA025610	Hs.9605	4.2.	3625 7589
25	413048	mannose receptor, C type 1	M93221	Hs.75182	4.2	672 673 5305
	423767	F-box only protein 2	H18283	Hs.132753	4.2	1845 6192
	420162	cyclin-dependent kinase 4	BE378432	Hs.95577	4.2	1422 5883
	421506	thymidine kinase 1, soluble	BE302796	Hs.105097	4.2	1550 5976
	418312	Ral guanine nucleotide exchange factor	AW972468	Hs.170307	4.2	1213 5726
30	403508	Target Exon		1.0.110001	4.2	4723
-	432729	hypothetical protein FLJ20285	AK000292	Hs.130732	4.2	2902 2903 6960
	414085	aldehyde dehydrogenase 1 family, membi		Hs.75746	4.2	775 5384
			Al272141		4.2	
	418113	SRY (sex determining region Y)-box 4		Hs.83484		1194 5711
35	452106	ESTs	Al141031	Hs.21342	4.2	4289 8131
33	429922	H1 histone family, member 0	Z97630	Hs.226117	4.2	2621 2622 6750
	457400	cathepsin Z	AF032906	Hs.252549	4,2	4547 4548 8347
	420255	membrane metallo-endopeptidase (neutra			4.2	1438 1439 5896
	417080	small nuclear ribonucleoprotein polypep	BE392846	Hs.1063	4.2	1075 5617
40	445472	Homo sapiens mRNA for KIAA0293 gene	, pa AB006631	Hs.12784	4.2	3773 3774 7711
40	453060	hypothetical protein MGC15754	AW294092	Hs.21594	4.2	4386 8213
	414586	lymphocyte cytosolic protein 1 (L-plast	AA306160	Hs.381099	. 4.2	833 5434
	434669	core histone macroH2A2.2	AF151534	Hs.92023	4.1	3068 3069 7093
	434149	hypothetical protein MGC5469	Z43829	Hs.244624	4.1	3030 7063
	445333	hypothetical protein FLJ12538 similar t	BE537641	Hs.44278	4.1	-3759 7700
45	401176	Target Exon			4.1	4646
	416926	HT018 protein	H03109	Hs.263395	4.1	1046 5596
	408196	SRY (sex determining region Y)-box 22	AL034548	Hs.43627	4.1	199 200 4940
	430422	ESTs	Al078115	Hs.54680	4,1	2694 6802
	411020	macrophage receptor with collagenous st			4.1	506 507 5168
50	452436	ESTs, Moderately similar to A46010 X-li	BE077546	Hs.31447	4.1	4330 8164
50	443264	ESTs, Moderately similar to A47582 B-ce		Hs.132137	4.1	3615 7581
					4.1	
	417866	collagen, type XI, aipha 1	AW067903	Hs.82772	2 1	1162 5685
	431863	spindlin	AA188185	Hs.289043	4.1	2829 6901
55	422032	polymerase (RNA) III (DNA directed) pol		Hs.110857	4.1	1625 6030
رد	440028	ESTs, Weakly similar to T17227 hypothet		Hs.367649	4.1	3446 7428
	407756	ubiquitin specific protease 18	AA116021	Hs.38260	4.1	159 4903
	452833	KIAA0124 protein	BE559681	Hs.30736	4.1	4355 8186
	429345	hypothetical protein	R11141	Hs.199695	4.1	2548 6700
~ ^	423447	ESTs	D31043	Hs.282596	4.1	1807 6163
60	426501	ESTs	AW043782	Hs.293616	4.1	2242 6467
	429415	procollagen C-endopeptidase enhancer	NM_002593	Hs.2 02097	4.1	2557 2558 6706
	446531	ESTs	AW301023	Hs.150854	4.1	3854 <i>7</i> 775
	439668	frizzled (Drosophila) homolog 8	Al091277	Hs.302634	4.1	3414 7397
	440087	hypothetical protein FLJ22678	W28969	Hs.7718	4.1	3452 7433
65	425170	transcription factor CP2	AU077315	Hs.154970	4.1	2061 6342
	414522	Immunoglobulin J chain	AW518944	Hs.76325	4.1	827 5428
	406625	stearoyl-CoA desaturase (delta-9-desatu		Hs.119597	4.1	28 29 4811
	400259	NM_017432*:Homo saplens prostate tum		Hs.19555	4.1	4610
	438209	aryl-hydrocarbon receptor nuclear trans	AL120659	Hs.6111	4.1	3309 7301
70	446570	ESTs	AV659177	Hs.127160	4.1	3858 7779
, 0	400252	NM_004651*:Homo saplens ubiquitin spe		Hs.171501	4.1	4609
	442739	cytosolic acyl coenzyme A thioester hyd nucleophosmin/nucleoplasmin 3	NM_007274		4.1	3581 3582 7550
	419488		AA316241	Hs.90691	4.1	1342 5822
75	452866	Homo sapiens cDNA: FLJ21243 fis, clone		Hs.268016	4.1	4361 8191
15	452689	transferrin	F33868	Hs.284176	4.1	4342 8176
	409012	DKFZP434I216 protein	AL117435	Hs.49725	4.1	293 294 5013
	449717	cerebral cell adhesion molecule	AB040935	Hs.23954	4.1	4110 4111 7989
	414172	phosphatidylinositol glycan, class C	AW954324	Hs.75790	4.1	785 5393
0.0	428001	ESTs, Moderately similar to Transformin	H97428	Hs.219907	4.1	2389 6576
80	412970	dual specificity phosphatase 10	AB026436	Hs.177534	4.1	661 662 5295
	409512	melanoma differentiation associated pro	AW979187	Hs.293591	4.1	354 5057
	428778	fibroblast growth factor receptor-like	AK000530	Hs.193326	4.1	2473 2474 6642
	444739	Homo sapiens cDNA FLJ12924 fis, clone		Hs.38034	4.1	3720 7670
_	422609	sialidase 1 (lysosomal sialidase)	Z46023	Hs.118721	4.1	1711 6093
85	418327	paired-like homeodomain transcription f	U70370	Hs.84136	4.1	1217 1218 5729
	418932	cadherin 4, type 1, R-cadherin (retinal	L34059	Hs.89484	4.0	1285 1286 5777
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	434408	FOT-						
	412561	ESTs	indian acco 2	AI031771	Hs.132586	4.0	3053 7080	
	408901	hymphocyte-acti hypothetical pro		NM_002286 AK001330	Hs.48855	4.0 4.0	603 604 5249	
	437202		iption factor Y, gamma	AA326110	Hs.374481	4.0	272 273 4997 3243 7240	
5	401552	C15001438:gil7	7300644 gb AAF55793.1 (AE	188017701	4.0	4653	
	435674	ESTs		H18063	Hs.13254	4.0	3144 7158	
	430381	1-acylglycerol-3	3-phosphate O-acyltransf	NM_006411	Hs.2 40534	4.0	2684 2685 6796	
	417160		ein 1 (Pelizaeus-Merzba	N76497	Hs.355807	4.0	1086 5626	
10	428409	ESTs		AW117207	Hs.98523	4.0	2438 6616	
10	453949	heat shock 105		AU077146	Hs.36927	4.0	4474 8284	
	420247 421508	hypothetical pro		AA256930	Hs.44680	4.0	1437 5895	
	453983	absent in melar ESTs .	iona z	NM_004833		4.0	1551 1552 5977	
	424223		hromatin binding motif	H94997 AJ243706	Hs.16450 Hs.143323	4.0 4.0	4476 8286 — 1916 1916 6340	
15	452068	ESTs	morroan outonia mon	W76412	Hs.57877	4.0	1915 1916 6240 4282 8125	
	419490		anzyme 1, cytotoxic T-lym			4.0	1343 1344 5823	
	447519	ESTs	•	U46258	Hs.339665	4.0	3936 7844	
	411492	immunoglobulin	superfamily, member 4	T46848	Hs.70337	4.0	538 5195	
20	425688		protein 2 (ERG1 binding	U48361	Hs.159223	4.0	2124 2125 6386	
20	428450	KIAA0175 gene		NM_014791		4.0	2443 2444 6621	
	411943	ES1s, Weakly s	similar to S44608 C02F5.6	BE502436	Hs.7962	4.0	562 5214	
	425390 423408	hypothetical pro	phosphatase, non-recep		Hs.156114	4.0	2098 6368	
	417933	thymidylate syn		AA325517 X02308	Hs.321046 · Hs.82962	4.0 4.0	1805 6161 1170 1171 5502	
25	421666	endothelin 3		AL035250	Hs.1408	4.0	1170 1171 5692 1574 1575 5991	
	457639	ESTs		W02410	Hs.205555	4.0	4558 8356	
	430200	geminin		BE613337	Hs.234896	4.0	2658 6777	
	425172	ESTs		AA447729	Hs.12714	4.0	2062 6343	
•	406908	gb:H.sapiens pr	rotein-tyrosine kinase ge	Z25437		4.0	77 78 4842	
30	404561	trichorhinophala	angeal syndrome I gene (4.0	4751	
	407604	collagen, type V		AW191962	Hs.353001	4.0	145 4891	
	405411		2213:SODIUM BICARBON	IATE COTR		4.0	4781	
	407856		associated with GEMs	AA045281	Hs.266175	4.0	170 4914	
25	438614	KIAA1305 prote		AB037726	Hs.288348	4.0	3338 3339 7326	
35	428309		acid-binding protein	M97815	Hs.183650	4.0	2427 2428 6608	
	428046		ely similar to 138022 hypo		Hs.337534	4.0	2393 6579	
	448610	nel (chicken)-lik		NM_006157		3.9	4019 4020 7912	
	409988 409198		ctor AP-2 alpha (activa	N27687	Hs.334334	3.8	401 5092	
40	409190	H2A histone fan	naly, member P	L19778	Hs.51011	2.4	323 324 5036	
10								
	TABLE 5B:							
	Pkey:	I Inique E	os probeset identifier nun					
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	CAT number			iber			•	
45	CAT number Accession:	r: Gene clu	ster number k accession numbers	iber	•	•	•	
45		r: Gene clu	ıster number	iber	•		-	
45	Accession: Pkey	r: Gene clu	ıster number	iber	•		-	
45	Accession: Pkey 406782	CAT Number	Accession numbers Accession AA430373 AA968771		•			
	Accession: Pkey 406782 406636	Gene clu Genbank CAT Number 0_0 0_0	Accession numbers Accession AA430373 AA968771		, 66 L12085 L1:	2072 L12082 L		
50	Accession: Pkey 406782 406636 426076	CAT Number 0_0 0_0 1227958_1	uster number K accession numbers Accession	L12075 L120	66 L12085 L1:	2072 L12082 L		
	Accession: Pkey 406782 406636 426076 455813	CAT Number 0_0 0_0 1227958_1 1515590_1	Accession numbers Accession AA430373 AA968771 L12064 L12083 L12065 AW962714 AA369277 A BE141577 BE141585 B	L12075 L120 A369278 E141587			L12081 L12062 L12080	
	Accession: Pkey 405782 406636 426076 455813 426413	CAT Number 0_0 0_0 1227958_1 1515590_1 372468_1	Accession numbers Accession AA430373 AA958771 L12064 L12083 L12065 AW962714 AA369277 A BE141577 BE141585 B AW954494 AA377823 E	L12075 L120 A359278 E141587 IG219617 BG	195685 BG61		L12081 L12062 L12080	
	Accession: Pkey 405782 406636 426076 455813 426413 406642	CAT Number 0_0 0_0 1227958_1 1515590_1 372468_1 0_0	Accession numbers Accession AA430373 AA968771 L12064 L12083 L12065 AW962714 AA369277 A BE141577 BE141585 BI AW954494 AA377823 E AJ245210 AJ245212 AJ	L12075 L120/ A369278 E141587 (G219617 BG 245211 AJ24	195685 BG61 5213	6269 AI02268I	L12081 L12062 L12080 8	
50	Accession: Pkey 405782 406636 426076 455813 426413	CAT Number 0_0 0_0 1227958_1 1515590_1 372468_1	Accession numbers Accession AA430373 AA958771 L12064 L12083 L12065 AW962714 AA369277 A BE141577 BE141585 B AW954494 AA377823 E AJ245210 AJ245212 AJ AW860953 AW860967 A	L12075 L120/ A369278 E141587 (G219617 BG 245211 AJ24	195685 BG61 5213	6269 AI02268I	L12081 L12062 L12080	05
	Accession: Pkey 405782 406636 426076 455813 426413 406642	CAT Number 0_0 0_0 1227958_1 1515590_1 372468_1 0_0	Accession numbers Accession AA430373 AA968771 L12064 L12083 L12065 AW962714 AA369277 A BE141577 BE141585 BI AW954494 AA377823 E AJ245210 AJ245212 AJ	L12075 L120/ A369278 E141587 (G219617 BG 245211 AJ24	195685 BG61 5213	6269 AI02268	L12081 L12062 L12080 8	05
50	Accession: Pkey 405782 406636 426076 455813 426413 406642 455169	CAT Number 0_0 0_0 1227958_1 1515590_1 372468_1 0_0	Accession numbers Accession AA430373 AA958771 L12064 L12083 L12065 AW962714 AA369277 A BE141577 BE141585 B AW954494 AA377823 E AJ245210 AJ245212 AJ AW860953 AW860967 A	L12075 L120/ A369278 E141587 (G219617 BG 245211 AJ24	195685 BG61 5213	6269 AI02268	L12081 L12062 L12080 8	05
50	Accession: Pkey 405782 406636 426076 455813 426413 406642 455169 TABLE 5C:	CAT Number 0_0 0_0 1227958_1 1515590_1 372468_1 0_0 1102920_1	Accession numbers Accession AA430373 AA968771 L12064 L12083 L12065 AW962714 AA369277 A BE141577 BE141585 B AW954494 AA377823 E AJ245210 AJ245212 AJ AW860963 AW860967 AW860908 BI031718	L12075 L120 A359278 E141587 G219617 BG 245211 AJ24 AW860955 AV	195685 BG61 5213 V862593 AW8	6269 AI02268	L12081 L12062 L12080 8	05
50	Accession: Pkey 405782 406636 426076 455813 426413 406642 455169 TABLE 5C: Pkey:	CAT Number 0_0 0_0 1227958_1 1515590_1 372468_1 0_0 1102920_1	Accession numbers Accession AA430373 AA958771 L12064 L12083 L12065 AW962714 AA369277 A BE141577 BE141585 BI AW954494 AA377823 E AJ245210 AJ245212 AJ AW860953 AW860967 AW860908 BI031718	L12075 L1200 A369278 E141587 (6219617 BG 245211 AJ249 AW860955 AV	195685 BG610 5213 V862593 AW8	6269 A1022681 160963 AW862	L12081 L12062 L12080 8 2595 AW860889 BF334678 AW860965 AW860890 AW8609	
50	Accession: Pkey 405782 406636 426076 455813 426413 406642 455169 TABLE 5C:	CAT Number 0_0 0_0 1227958_1 1515590_1 372468_1 0_0 1102920_1	Accession numbers Accession AA430373 AA958771 L12064 L12083 L12065 AW962714 AA369277 A BE141577 BE141585 BI AW954494 AA377823 E AJ245210 AJ245212 AJ AW860953 AW860967 AW860968 BI031718 sumber corresponding to a se source. The 7 digit num	L12075 L1200 A369278 E141587 (6219617 BG 245211 AJ249 AW860955 AV	195685 BG610 5213 V862593 AW8	6269 A1022681 160963 AW862	L12081 L12062 L12080 8	
50	Accession: Pkey 405782 406636 426076 455813 426413 406642 455169 TABLE 5C: Pkey:	CAT Number 0_0 0_0 1227958_1 1515590_1 372468_1 0_0 1102920_1 Unique n Sequence	Accession numbers Accession AA430373 AA958771 L12064 L12083 L12065 AW962714 AA369277 A BE141577 BE141585 B AW954494 AA377823 E AJ245210 AJ245212 AJ AW860953 AW860967 A AW860908 BI031718 sumber corresponding to a as source. The 7 digit num The DNA	L12075 L120 A359278 E141587 IG219517 BG 245211 AJ24 AW860955 AV	195685 BG611 5213 V862593 AW8 at at	6269 A1022681 160963 AW862	L12081 L12062 L12080 8 2595 AW860889 BF334678 AW860965 AW860890 AW8609 r (GI) numbers. "Dunham I. et al." refers to the publication en	
50	Accession: Pkey 405782 406636 426076 455813 426413 406642 455169 TABLE 5C: Pkey: Ref:	CAT Number 0_0 0_0 0_0 1227958_1 1515590_1 372468_1 0_0 1102920_1 Unique n Sequence	Accession numbers Accession AA430373 AA968771 L12064 L12083 L12065 AW962714 AA369277 A BE141577 BE141585 B AW954494 AA377823 E AJ245210 AJ245212 AJ AW860963 AW860967 A W860908 BI031718 aumber corresponding to a se source. The 7 digit num file DNA e of human chromosome 2	L12075 L1200 A369278 E141587 IG219617 BG 245211 AJ249 AW860955 AV In Eos probese bers in this co	195685 BG61 5213 V862593 AW8 et olumn are Gen I. et al., Nature	6269 A1022681 160963 AW862	L12081 L12062 L12080 8 2595 AW860889 BF334678 AW860965 AW860890 AW8609 r (GI) numbers. "Dunham I. et al." refers to the publication en	
50	Accession: Pkey 405782 406636 426076 455813 426413 406642 455169 TABLE 5C: Pkey: Ref:	CAT Number 0_0 0_0 1227958_1 1515590_1 372468_1 0_0 1102920_1	Accession numbers Accession AA430373 AA968771 L12064 L12083 L12065 AW962714 AA369277 BE141577 BE141585 BI AW954494 AA377823 E AJ245210 AJ245212 AJ AW860963 AW860967 AW860908 BI031718 aumber corresponding to a as source. The 7 digit num The DNA e of human chromosome 2 t DNA strand from which e	L12075 L1200 A359278 E141587 IG219617 BG 245211 AJ249 AW860955 AV In Eos probese bers in this co	195685 BG61 5213 V862593 AW8 et olumn are Gen I. et al., Nature dicted.	6269 A1022681 160963 AW862	L12081 L12062 L12080 8 2595 AW860889 BF334678 AW860965 AW860890 AW8609 r (GI) numbers. "Dunham I. et al." refers to the publication en	
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505560657075	Accession: Pkey 406782 406636 426076 455813 426413 406642 455169 TABLE 5C: Pkey: Ref: Strand: Nt_position: Pkey 404854 403349 402992 406367 404378 401797 403404 404815 404030 402888 403857 405542 404240 405451 403402 402474	CAT Number 0_0 0_0 1227958_1 1515590_1 372468_1 0_0 1102920_1 Unique n Sequence 17 sequence Indicates Indicates Ref 7143420 8569773 7767907 9256126 8810489 6730720 9438460 5911819 7671252 9930892 7708910 9857564 5002624 7622517 9438460 7547175	Accession numbers Accession AA430373 AA968771 L12064 L12083 L12065 AW962714 AA369277 BE141577 BE141585 B AW954494 AA377823 E AJ245210 AJ245212 AJ AW860963 AW860967 AW860908 BI031718	L12075 L120 A359278 E141587 IG219517 BG 245211 AJ24 AW860955 AV In Eos probese bers in this co 22." Dunham I xons were pre- edicted exons. position 260-14537 7815-168374 137-42515 133-58489 133-79-133526 73-7118 1392-22598,225 194-64691 1362-151749 127-54901 124-3408 131-72183 13132-116407,7 13949-146227 143-14086,155 1526-53628,557	195685 BG61 5213 V862593 AW8 et alumn are Gen I. et al., Nature dicted.	6269 Al022681 60963 AW862	L12081 L12062 L12080 8 2595 AW860889 BF334678 AW860965 AW860890 AW8609 r (GI) numbers. "Dunham I. et al." refers to the publication en	
505560657075	Accession: Pkey 406782 406636 426076 455813 426413 406642 455169 TABLE 5C: Pkey: Ref: Strand: Nt_position: Pkey 404854 403349 402992 406367 404378 401797 403404 404815 404030 402888 403857 405542 404240 405451 403402	CAT Number 0_0 0_0 1227958_1 1515590_1 372468_1 0_0 1102920_1 Unique n Sequence 17 sequence Indicates Indicates Indicates 1743420 8569773 7767907 9256126 8810489 6730720 9438460 5911819 7671252 9930892 77087910 9857564 5002624 7622517 9438460 7547175 7259739	Accession numbers	L12076 L1201 A369278 E141587 IG219617 BG 245211 AJ243 AW860955 AV In Eos probese bers in this co 12.** Dunham I xons were pre edicted exons. position 160-14537 7815-168374 137-42515 133-58489 137-42515 133-58489 137-42515 133-58489 131-72183 131-72183 131-72183 131-72183 131-72183 131-72183 132-116407,1 1949-146227 1943-14086,155 126-53628,557 142-40150	195685 BG61 5213 V862593 AW8 et clumn are Gen I. et al., Nature dicted.	6269 Al022681 60963 AW862	L12081 L12062 L12080 8 2595 AW860889 BF334678 AW860965 AW860890 AW8609 r (GI) numbers. "Dunham I. et al." refers to the publication en	
50556065707580	Accession: Pkey 406782 406636 426076 455813 426413 406642 455169 TABLE 5C: Pkey: Ref: Strand: Nt_position: Pkey 404854 403349 40292 406367 404378 401797 403404 404815 404030 402888 403857 405542 402474 403668 403405	CAT Number 0_0 0_0 1227958_1 1515590_1 372468_1 0_0 1102920_1 Unique n Sequenc 17 sequenc Indicates Indicates Indicates Ref 7143420 8569773 7767907 9256126 8810489 6730720 9438460 5911819 7671252 9930892 7708910 9857564 5002624 7622517 9438460 7547175 7259739 9438460	Accession numbers	L12075 L120 A369278 E141587 G219817 BG 245211 AJ24 AW860955 AV In Eos probess bers in this co 22." Dunham I xons were pre edicted exons. position 260-14537 815-168374 137-42515 313-58489 3379-133526 73-7118 932-22598,225 194-64691 9362-151749 127-54901 24-3408 131-72183 131-7	195685 BG61 5213 V862593 AW8 et clumn are Gen I. et al., Nature dicted.	6269 Al022681 60963 AW862	L12081 L12062 L12080 8 2595 AW860889 BF334678 AW860965 AW860890 AW8609 r (GI) numbers. "Dunham I. et al." refers to the publication en	
505560657075	Accession: Pkey 406782 406636 426076 455813 426413 406642 455169 TABLE 5C: Pkey: Ref: Strand: Nt_position: Pkey 404854 403349 402992 406367 404378 401797 403404 404815 404030 402888 403857 405451 403402 405451 403668	CAT Number 0_0 0_0 1227958_1 1515590_1 372468_1 0_0 1102920_1 Unique n Sequence 17 sequence Indicates Indicates Indicates 1743420 8569773 7767907 9256126 8810489 6730720 9438460 5911819 7671252 9930892 77087910 9857564 5002624 7622517 9438460 7547175 7259739	Accession numbers	L12075 L120 A369278 E141587 G219517 BG 245211 AJ249 AW860955 AV In Eos probese bers in this co 22. Dunham i xons were pre- edicted exons. position 260-14537 7815-168374 137-42515 313-58489 3137-9133526 73-7118 392-22598,225 392-24596 313-54901 24-3408 31-72183 3132-116407,1 3949-146227 343-14086,155 326-53628,557 342-40150 774-24296 381-43229	195685 BG61 5213 V862593 AW8 et clumn are Gen I. et al., Nature dicted.	6269 Al022681 60963 AW862 bank Identifier a (1999) 402:4	L12081 L12062 L12080 8 2595 AW860889 BF334678 AW860965 AW860890 AW8609 r (GI) numbers. "Dunham I. et al." refers to the publication en	
50556065707580	Accession: Pkey 406782 406636 426076 455813 426413 406642 455169 TABLE 5C: Pkey: Ref: Strand: Nt_position: Pkey 404854 403349 402992 406367 404378 401797 403404 404815 404030 402888 403857 405542 404404 403451 403402 402474 403668 403405 404977	CAT Number 0_0 0_0 0_0 1227958_1 1515590_1 372468_1 0_0 1102920_1 Unique n Sequence Indicates I	Accession numbers	L12075 L120 A369278 E141587 G219817 BG 245211 AJ24 AW860955 AV In Eos probess bers in this co 22." Dunham I xons were pre edicted exons. position 260-14537 815-168374 137-42515 313-58489 3379-133526 73-7118 932-22598,225 194-64691 9362-151749 127-54901 24-3408 131-72183 131-7	195685 BG61 5213 V862593 AW8 et clumn are Gen I. et al., Nature dicted.	6269 Al022681 60963 AW862 bank Identifier a (1999) 402:4	L12081 L12062 L12080 8 2595 AW860889 BF334678 AW860965 AW860890 AW8609 r (GI) numbers. "Dunham I. et al." refers to the publication en	

	405104	8077004	Plus 5	5387-55519				
	404721	9856648		73763-174294				
	401357	9931663		43295-143425				
_	402994	2995643		727-4969				
5	405770	2735037		1057-62075				
	404920	6289231		4213-94389 0148-10272,112	05.117/Q 11/	36.11560	1178	
	405372 402876	2078459 9864669		679-6027,7485-		1000,	,,,,,,	
	400802	8567867		74571-174856				
10	403130	9211429		2566-62725				*
	403508	7630896	Plus 8	570-5719			•	
	401176	9438469		20475-20734				
	401552	8099284		78877-79056				
1.5	404561	9795980		59039-70100	04 40000			•
15	405411	3451356	Minus	17503-17778,180	121-10230			
	TABLE 6A							
20	Pkey:		Unique Eos probeset idea	ntifier number				
	Gene name:							
	Accession: UniGene:	Unigene num	cession number, Genbank	accession numb	er			
	RATIO:	95th nercenti	ibei ile of rhabdomysarcoma A'	s divided by the	50th percentil	e of norma	ıl tissue Als, where the 10th percent	ile of normal tissue Als was
25	rotio.		om both the numerator and		ova. po. some			
20	SEQID#:		and protein sequences pro		search purpos	:es		
							050) 0 11	
	Pkey	Gene Name		Accession	UniGene	RATIO	SEQ ID # 1269 1270 5765	
20	418678		antigen (NY-ESO-1)	NM_001327 L20433	Hs.8 /225 Hs.211588	20.0 18.4	2600 2601 6734	
30	429664 419078	insulinoma-a	n, class 4, transcription fact	M93119	Hs.89584	17.3	1297 1298 5787	
	452899		ix loop helix 1	M96739	Hs.30956	17.0	4367 8196	
	431727	ESTs	K toop trout .	AW293464	Hs.162031	15.3	2814 6889	
	412719	ESTs		AW016610	Hs.816	15.1	633 5270	
35	419741		rier protein E2-C	NM_007019		14.5	1379 1380 5850	
	416836	cholecystoki		D54745	Hs.80247	13.8 13.6	1038 5589 4357 4358 8188	
	452838		y expressed antigen in mel iption factor, LIM/homeodo		Hs.30743 He 5.05	12.9	4317 4318 8155	
•	452340 417308	KIAA0101 g		H60720	Hs.81892	12.7	1094 5634	
40	422960		H-cadherin (heart)	AW890487	Hs.355618	12.7	1762 6130	
	414683	hypothetical	protein MGC12702	S78296	Hs.76888	12.6	846 847 5444	
	430294		leotide binding protein 4	A1538226	Hs.32976	12.5	2677 6791	
	417389		unte growth-promoting fact		Hs.82045	12.3	1109 5647 3920 3921 7831	
45	447377 434314		i factor AP-2 alpha mber RAS oncogene famili	X77343 v BE392921	Hs.334334 Hs.3797	12.0 <u>~</u> 12.0	3042 7072	
43	424411	crystallin, be		NM_005209		11.7	1945 1946 6262	
	407168	ESTs		R45175	Hs.117183	11.7	116 4868	
	446921	small induct	ble cytokine subfamily A ((C AB012113	Hs.16530	11.6	3878 3879 7797	
50	441290		receptor, nicotinic, alpha	W27501	Hs.89605	11.3	3507 7482	
50	443184	ESTs		Al638728	Hs.135159	11.3	3607 7574 3742 7687	
	445084 417153		l protein FLJ14761 pe II, alpha 1 (primary ost	H38914 X57010	Hs.250848 Hs.81343	11.2 11.2	1084 1085 5625	
	457411		ss homeobox protein IRX2		Hs.130093	11.1	4549 8349	
	425397		ese (DNA) II alpha (170kD		Hs.156346	10.7	2099 2100 6369	
55	422311		eptor-like factor 1	AF073515	Hs.114948	10.6	1669 1670 6062	
	407178		ranscription factor	AA195651	Hs.352312	10.6	118 4870	
	438703	ESTs	n amiala d	AI803373 H40164	Hs.31599 Hs.80296	10.3 10.3	3348 7333 1041 5591	
	416854 417900	Purkinje cel	ii protein 4 Il division cycle 20, S. cere		Hs.82906	10.3	1165 5688	
60	413248		il protein DKFZp547J036	T64858	Hs.380145	10.1	690 5319	
•	451952	ESTs	,	AL120173	Hs.301663	10.1	4264 8111	
	440492		il protein DKFZp547J036	R39127	Hs.380145	10.1	3469 7448	
	436481		protein similar to ubiquitin-	o AA379597	Hs.5199	10.0 9.9	3192 7197 1800 1801 6158	
65	423362	myosin XV	nin A (parathyrold secretor		Hs.1 27561 Hs.172216		2271 2272 6485	
05	426784 433001		310 PRO0310p1	AF217513	Hs.279905		2923 2924 6977	
	420092	ESTs	51011t00010p1	AA814043	Hs.88045	9.7	1415 5877	
	413278		timulated protein, 15 kDa	BE563085	Hs.833	9.7	695 5322	
70	453857	Ras-Induce	ed senescence 1 (RIS1)	AL080235	Hs.35861	9.6	4449 4450 8266	•
70	442117		othetical protein for IMAGE				3551 7523 4163 8031	. •
	450390		IA sequence from clone RI ent, heavy polypeptide (20		7 Hs.34880 Hs.198760		2538 2539 6692	
	429290 410687	lysyl oxidas		U24389	Hs.65436	9.5	485 486 5153	
	442432		al protein FLJ23468	BE093589	Hs.38178	9.5	3563 7535	
75	433929	ESTs	•	A1375499	Hs.27379	9.4	3016 7050	
	437204		akly similar to 155214 saliva		Hs.355961		3244 7241	
	453240		el protein DKFZp566I133	A1969564	Hs.380132		4406 8230 4122 8000	
	449956 440210	Inhibitor of ESTs	DNA binding 2, dominant	ne AA004852 AW674562	Hs.180919 Hs.122128		3462 7441	
80	438091		ceptor subfamily 1, group I				3302 7295	
	411666		ent 3 (150kD medium)	AF106564	Hs.71346	9.1	546 5201	
	418156	nuclear rec	eptor subfamily 1, group I	W17056	Hs.83623	9.0	1198 5715	
	450164	ESTs	O J#	Al239923	Hs.63931	9.0	4138 8013	
85	410402		nouse Ras, dexamethasor	e-ind AL022334 AW302885			458 459 5134 . 732 5349	
0)	413597 435652	ESTs uncharacte	erized hypothalamus prote		Hs.117183 Hs.334370		3142 7154	
	-TUUUL	411011011011011					±	

	432143	Homo sapiens, clone IMAGE:4178394, mF	2NA AI NAN183	R He 123484	8.8	2845 6912
	441134			Hs.346950	8.8	3500 7475
	430627		U61148	Hs.247685	8.7	2715 2716 6816
_	410366			Hs.302689	8.7	457 5133
5	438089			Hs.351546 Hs.63931	8.7 8.7	3301 7294 463 464 5137
	410467 424687		AF102546 J05070	Hs.151738	8.7	1986 1987 6289
	453582		AW854339	Hs.33476	8.5	4427 8247
	452363	Homo sapiens, Similar to complement con	n Al582743	Hs.94953	8.5	4322 8159
10	439671	kinesin family member 5C	AW162840	Hs.6641	8.4	3415 7398
	455601	SRY (sex determining region Y)-box 2	Al368680	Hs.816 Hs.125742	8.4 8.3	4507 8313 1787 6149
	423232 438831	leucine-rich neuronal protein synapsin II	BE244625 BE263273	Hs.6439	8.3	3357 7341
	432729	hypothetical protein FLJ20285	AK000292	Hs.130732	8.3	2902 2903 6960
15	408826	Homo sapiens done HB-2 mRNA sequent		Hs.48376	8.2	263 4990
	417160	proteolipid protein 1 (Pelizaeus-Merzba	N76497	Hs.355807	8.2	1086 5626
	412754	amyloid beta (A4) precursor-like protel Human DNA sequence from PAC 75N13	AW160375	Hs.74565 Hs.326801	8.2 8.2	636 5273 3477 7455
	440650 412471	endothelial cell growth factor 1 (plate	M63193	Hs.73946	8.2	591 592 5239
20	409893	minichromosome maintenance deficient (Hs.57101	8.2	397 5088
	414219	ALL1-fused gene from chromosome 1q	W20010	Hs.75823	8.1	789 5397
	420783	lectin, galactoside-binding, soluble, 7	AI659838	Hs.99923	B.1	1478 5924 3611 7578
	443247	c-Myc target JPO1 Homo sapiens cDNA FLJ11481 fis, clone	BE614387	Hs.333893 Hs.135159	8.1 8.1	1321 5805
25	419236 443426	chromosome 20 open reading frame 1	AF098158	Hs.9329	8.1	3621 3622 7586
20	400411	Homo sapiens G-protein gamma 8 subun			8.1	20 21 4625
	425256	collapsin response mediator protein 1	BE297611	Hs.155392	7.9	2074 6352
	422809	hypothetical protein FLJ10549	AK001379	Hs.121028	7.8	1741 1742 6115 90 91 4821
30	406673	major histocompatibility complex, class	M34996 U62432	Hs.198253 Hs.89605	7.8 7.7	3688 3689 7645
30	444279 415989	cholinergic receptor, nicotinic, alpha ESTs	A1267700	Hs.351201	7.7	962 5530
	441390	ESTs	A1692560	Hs.355961	7.7	3516 7489
	407112	ESTs, Weakly similar to ALU7_HUMAN A			7.7	111 4863
25	435099	flap structure-specific endonuclease 1	AC004770	Hs.4756	7.7	3104 3105 7123
35	419086	Kallmann syndrome 1 sequence	NM_000216 AL035588	Hs.153203	7.7 7.6	1300 1301 5789 2002 2003 6300
	424800 446051	MyoD family inhibitor ephrin-A3	BE048061	Hs.37054	7.6	3816 7744
	420460	Homo sapiens clone HB-2 mRNA sequer			7.6	1453 5907
40	414945	lymphocyte antigen 6 complex, locus E	BE076358	Hs.77667	7.5	894 5477
40	409142	SMC4 (structural maintenance of chromo		Hs.50758	7.5 7.5	312 313 5027 570 5221
	412107 444527	growth factor independent 1 small inducible cytokine subfamily A (C	BE242676 NM_005408	Hs.73172 Hs 1 1383	7.5 7.5	3703 3704 7657
	424468	LIM homeobox protein 3	AF156889	Hs.148427	7.5	1958 1959 6271
	413407	Inositol polyphosphate phosphatase-like		Hs.75339	7.4	713 5333
45	449722	cyclin B1	BE280074	Hs.23960	7.4	4112 7990
	412140	RAB6 interacting, kinesin-like (rabkine	AA219691 AW959861	Hs.73625 Hs.290943	7.4 7.4	573 5223 1790 6151
	423279 454140	ESTs hypothetical protein FLJ10474	AB040888	Hs.41793	7.4	4493 4494 8301
	439979	hypothetical protein FLJ10430	AW600291	Hs.6823	7.4	3442 7424
50	421307	Homo sapiens mRNA; cDNA DKFZp434	B0425 (BE53	9976 Hs.103	305 7.4	1528 5963
	453243	KIAA0441 gene product	AB007901	Hs.32511	7.3	4407 4408 8231
	430826	POU domain, class 4, transcription fact	U10061	Hs.248019 Hs.8 4389	7.3 7.3	2731 2732 6828 1222 1223 5732
	418375 453597	synaptosomal-associated protein, 25kD myo-inositol 1-phosphate synthase A1	BE281130	Hs.381118	7.3	4429 8249
55	408915	heptacellular carcinoma novel gene-3 pr		Hs.4 8950	7.3	274 275 4998
-	414117	proteolipid protein 1 (Pelizaeus-Merzba	W88559	Hs.355807	7.3	777 5386
	452223	hypothetical protein MGC2827	AA425467	Hs.8035	7.3	4302 8142 2548 6700
	429345 444006	hypothetical protein type I transmembrane protein Fn14	R11141 BE395085	Hs.199695 Hs.334762	7.2 7.2	3668 7627
60	408562	roundabout (axon guidance receptor, Dr		Hs.31141	7.2	240 4971
•	450663	ribonuclease HI, large subunit	H43540	Hs.25292	7.2	4179 8044
	448610	nel (chicken)-like 1		7 Hs.2 1602	7.2	4019 4020 7912
	416322	pyrroline-5-carboxylate reductase 1	BE019494 U23752	Hs.79217 Hs.32964	7.1 7.1	989 5554 4416 4417 8239
65	453392 425770	SRY (sex determining region Y)-box 11 spastic ataxla of Charlevoix-Saguenay (3 Hs.1 59492		2136 2137 6393
05	437036	ESTs	AJ571514	Hs.133022		3232 7231
	450447	hypothetical protein P15-2	AF212223	Hs.25010	7.1	4168 4169 8036
	424001	paternally expressed 10	W67883	Hs.137476		1882 6217
70	443981	KIAA0274 gene product complement component 1, q subcompo	D87464	Hs.10037	7.1 7.1	3664 3665 7624 3598 7566
70	443071 426991	Homo sapiens cDNA FtJ10674 fis, clore	ie N AK00153	6 Hs.214410		2294 6502
	431629	interferon, alpha-inducible protein (cl	AU077025			2803 6881
	432731	fibronectin 1	R31178	Hs.287820		2904 6961
75	432409	KIAA1575 protein	AA806538	Hs.130732		2873 6935
75	414761	enhancer of zeste (Drosophila) homolog ESTs, Weakly similar to CNIH_HUMAN	3 AU077228	Hs.77256 453 He 1948	7.0 7.0	865 5458 1249 5750
	418515 428450	KIAA0175 gene product	NM 01479	455 ns. 15467 1 Hs.1 84339	6.9	2443 2444 6621
	445016	reelin	U79716	Hs.12246	6.9	3738 3739 7684
00	421777	HSPC037 protein	BE562088	Hs.108196		1590 6002
80	443021	lg superfamily protein	AA368546		6.9	3593 7561
	425274	minichromosome maintenance deficien	t (m BE28119 U29195	1 Hs.155462 Hs.3281	6.8 6.8	2079 6356 2980 2981 7021
	433447 414416	neuronal pentraxin II hypothetical protein MGC2721	AW409985		6.8	813 5417
	451489	amyloid beta (A4) precursor protein-bin	NM_00550	3 Hs.2 6468	6.8	4233 4234 8088
85	442285	uncharacterized hypothalamus protein	HT W28729	Hs.374989		3554 7526
	435977	brain-specific membrane-anchored pro	iei al.138079	Hs.5012	6.8	3166 7174

	407792	putative secreted ligand homologous to	AI077715	Hs.39384	6.8	162 4906
	443859	follistatin	NM_013409		6.8	3651 3652 7613
	444381	hypothetical protein BC014245	BE387335	Hs.283713	6.8	3697 7652
5	436608	down syndrome critical region protein D	AA628980	Hs.192371	6.8	3205 7207
)	422363	replication factor C (activator 1) 3 (3	T55979	Hs.115474	6.7	1673 6065
	421362	hypothetical protein FLJ20043	AK000050	Hs.103853	6.7	1531 1532 5965
	427239 410889	ubiquitin carrier protein	BE270447	Hs.356512	6.7	2311 6515
		twist (Drosophila) homolog (acrocephalo	X91662	Hs.66744	6.7	501 502 5164
10	428405 416602	cholinergic receptor, nicolinic, alpha	Y00762	Hs.2266	6.7	2436 2437 6615
10	407619	Protein kinase C-binding protein NELL2	NM_006159		6.7	1017 1018 5575
	432527	collagen, type IX, alpha 2 ESTs	AL050341	Hs.37165	6.7	146 147 4892
	416065	proliferating cell nuclear antigen	AW975028 BE267931	Hs.102754 Hs.78996	6.7	2883 6944
	425234	ESTs, Weakly similar to 138022 hypothet		Hs.165909	6.7 6.7	968 5536
15	416658	fibrillin 2 (congenital contractural ar	U03272	Hs.79432	6.7	2070 6349 1020 1021 5577
	418399	hypothetical protein FLJ12442	AF131781	Hs.84753	6.6	1232 1233 573B
	450676	ESTs	Al147155	Hs.279727	6.6	4180 8045
	409633	ESTs	AW449822	Hs.55200	6.6	371 5068
00	419405	ESTs	Al377043	Hs.42189	6.6	1333 5816
20	437044	differentially expressed in Fanconi's a	AL035864	Hs.69517	6.5	3233 7232
	435732	leucine rich repeat and death domain co	AF229178	Hs.123136	6.5	3147 3148 7159
	438076	ESTs	W88525	Hs.18816	6.5	3298 7291
	453439	guanine nucleotide binding protein 4	Al572438	Hs.32976	6.5	4419 8241
25	410359	ESTs	R38624	Hs.106313	6.5	455 5131
23	431183	KDEL (Lys-Asp-Glu-Leu) endoplasmic ret	_	Hs.250696	6.4	2756 2757 6845
	452097	a disintegrin-like and metalloprotease	AB002364	Hs.27916	6.4	4287 4288 8130
	450748 409731	ESTs	AI733093	Hs.247686	6.4	4189 8053
	412577	thymosin, beta, identified in neuroblas CD163 antigen	AA125985 Z22968	Hs.56145 Hs.74076	6.4	386 5080
30	418113	SRY (sex determining region Y)-box 4	Al272141	Hs.83484	6.4 6.4	608 609 5252
-	41 1789	Adlican	AF245505	Hs.72157	6.4	1194 5711 553 554 5207
	422515	multifunctional polypeptide similar to	AW500470	Hs.117950	6.3 .	1693 6079
	439522	Homo sapiens, clone MGC:15766, mRNA			6.3	3404 7387
	453139	Human DNA sequence from clone RP11-				4394 8220
35	433036	ESTs	AA574091	Hs.105964	6.3	2929 6981
	434284	ankyrin 1, erythrocytic	N63745	Hs.183805	6.3	3041 7071
	409799	phosphoserine phosphatase-like	D11928	Hs.76845	6.3	387 5081
	452701 .	glutamine-fructose-6-phosphate transami		Hs.3 0332	6.3	4345 4346 8178
40	424308	minichromosome maintenance deficient (5		Hs.154443	6.3	1932 6250
40	426075	ESTs, Wealthy similar to 2109260A B cell		Hs.270149	6.3	2170 6417
	437696	hypothetical protein dJ37E16.5	Z83844	Hs.5790	6.3	3281 7274
	413995 421016	syntaxin 1A (brain)	BE048146	Hs.75671	6.3	761 5373
	412014	transcription factor 3 (E2A immunoglobu ESTs, Weakly similar to A46010 X-linked	AA504583	Hs.101047	6.3	1497 5937
45 -	457869	Homo sapiens, alpha-1 (VI) collagen	AU077186	Hs.43761 Hs.108885	6.3 6.3	566 5218 4561 8359
	452056	Homo sapiens, clone IMAGE:4054156, mi				4280 8123
	436199	hypothetical protein FLJ14503	R38946	Hs.127951	6.2	3175 7180
	427400	hypothetical protein FLJ11939	AW245084	Hs.94229	6.2	2325 6525
~ ^	449052	ESTs	AW029507	Hs.161102	6.2	4062 7946
50	453041	Homo sapiens cDNA FLJ11918 fis, clone		Hs.289068	6.2	4384 8211
	439753	hypothetical protein from EUROIMAGE 21	6 BE262233	Hs.7423	6.2	3429 7412
	430167	FEV protein	Y08976	Hs.234759	6.2	2655 2656 6775
	451766	ephrin-B3	NM_001406		6.2	4255 4256 8104
55	456508 456534	ESTs, Weakly similar to AF208855 1 BM-	D AA502764	Hs.123469	6.2	4521 8325
55	408349	phospholipase C, beta 3, neighbor pseud homeo box C10		Hs.100623	6.2	4522 8326
	429903	cyclin-dependent kinase 5, regulatory s	BE546947 AL134197	Hs.44276	6.2	213 4949
	439668	frizzled (Drosophila) homolog 8	ALI34137 ALI34137	Hs.93597 Hs.302634	6.2 6.2	2616 6746 3414 7397
	431070	transcription factor 19 (SC1)	AW408164	Hs.249184	6.2	2744 6837
60	410530	ATPase, H transporting, lysosomal (vacu		Hs.64173	6.1	469 470 5141
	434859	collapsin response mediator protein-5;	BE255080	Hs.299315	6.1	3083 7104
	450414	KIAA1716 protein	AI907735	Hs.21446	6.1	4165 8033
	402994	NM_002463*:Homo sapiens myxovirus (in			6.1	4701
65	450701	hypothetical protein XP_098151 (leucine		Hs.288467	6.1	4183 8048
65	414747		U30872	Hs.77204	6.1	861 862 5455
	449514	protein predicted by clone 23627	AW970440	Hs.23642	6.1	4093 7975
	440774 418406	ESTs cytokeratin 20	AI420611	Hs.153934	6.1	3486 7462
	452319	transducin-like enhancer of split 1, ho	X73501	Hs.84905	6.0	1235 1236 5740
70	447414	neuroblastoma (nerve tissue) protein	M99435 D82343	Hs.28935	6.0	4313 4314 8152
. •	419991	eyes absent (Drosophila) homolog 1	AJ000098	Hs.74376 Hs.94210	6.0 6.0	3924 3925 7834 1404 1405 5869
	432290	Homo sapiens cDNA FLJ10237 fis, clone	H AK001099	Hs.274273	6.0	2862 6926
	418322		AA284166	Hs.84113	6.0	1214 5727
	452242		R50956		6.0	4305 8145
75	427375	metallocarboxypeptidase CPX-1	AL035460	Hs.177536	6.0	2320 2321 6522
	406634	GDP dissociation inhibitor 1	AA386235		6.0	31 4813
	418140	microfibrillar-associated protein 2	BE613836	Hs.83551	6.0	1196 5713
	436190	gb:Homo sapiens cDNA FLJ10197 fis, clor			6.0	3173 3174 7179
80	426509	pentaxin-related gene, rapidly induced	M31166	Hs.2050	6.0	2243 2244 6468
30	438162 414915	deleted in bladder cancer chromosome re			6.0	3306 3307 7299
	452291		NM_002462		6.0	888 889 5473
	429415				6.0 6.0	4310 4311 8150
	409012	mission in the same	NM_002593 AL117435		6.0 5.0	2557 2558 6706
85	443210	hypothetical protein MGC13168	A1692649	Ha 9451	5.9 5.9	293 294 5013 3609 7576
	456658	Homo saplens PAC clone RP4-751H13 fro	m Al660203	Hs.112158	5.9	4527 8330
				· 	-	

	414812	monokine induced by gamma interferon	X72755	Hs.77367	5.9	874 875 5464
	424439	ligase I, DNA, ATP-dependent	AA579635	Hs.1770	5.9	1950 6265
	441689	ESTs	Al123705	Hs.289068	5.9	3533 7505
_	415947	mutS (E. coli) homolog 2 (colon cancer,	U04045	Hs.78934	5.9	960 961 5529
5	420238	ESTs, Weakly similar to 2109260A B cell	AA256783	Hs.12549	5.9	1436 5894
	434449	hypothetical protein FLJ22041 similar t	AW953484	Hs.3849	5.9	3057 7083
	414732	minichromosoma maintenance deficient (S		Hs.77152	5.9	859 5453
	410102	ESTs; homologue of PEM-3 [Clona savign			5.8	422 5107
10	443912	ESTS	R37257	Hs.184780	5.8	3657 7618
10	429163 435793	gb:am20a10.s1 Soares_NFL_T_GBC_S1	AB037734	766 Hs.4993	5.8 5.8	2521 6678
	435978	KIAA1313 protein Homo sapiens PR-domain zinc finger prot		Hs.135118	5.8	3152 3153 7162 3167 3168 7175
	422283	CDC45 (cell division cycle 45, S.cerevi	AW411307	Hs.114311	5.8	1668 6061
	452833	KIAA0124 prolein	BE559681	Hs.30736	5.8	4355 8186
15	409327	collagen, type IX, alpha 3	L41162	Hs.53563	5.8	341 342 5047
	400263	Eos Control		Hs.75309	5.8	4613
	447733	MAD2 (mitotic arrest deficient, yeast,	AF157482	Hs.19400	5.8	3955 3956 7860
r	417115	small nuclear ribonucleoprotein polypep	AW952792	Hs.334612	5.8	1081 5622
20	444371	forkhead box M1	BE540274	Hs.239	5.8	3696 7651
20	453830	ESTs	AA534296	Hs.20953	5.8	4445 8263
	419550	KIAA0128 protein; septin 2	D50918	Hs.90998	5.8	1348 1349 5827
	457211 435141	ESTs, Weakly similar to S51797 vasodila Rec8p, a meiotic recombination and slst	AA862498	Hs.32399 Hs.4767	5.8 5.8	4543 8344 3108 7126
	447499	protocadherin beta 16	AW262580	Hs.147674	5.8	3934 7842
25	427528	minichromosome maintenance deficient (S		Hs.179565	5.8	2341 6537
	417933	thymidylate synthetase	X02308	Hs.82962	5.8	1170 1171 5692
	439963	platelet-activating factor acetylhydrol	AW247529	Hs.6793	5.8	3441 7423
	438821	ESTs	AA826425	Hs.192375	5.8	3355 7339
20	431049	hypothetical protein FLJ22548 similar t	AA846576	Hs.103267	5.8	2743 6836
30	444783	anillin (Drosophila Scraps homolog), ac	AK001468	Hs.62180	5.8	3722 3723 7672
	415857	Homo sapiens cDNA FLJ11381 fis, clone			5.8	952 5523
	409062 418478	Homo sapiens mRNA; cDNA DKFZp564B cyclin-dependent kinase inhibitor 2A (m	U38945	Hs.1174	5.7	301 5018 1245 1246 5747
	440209	neurexin 3	H05049	Hs.247837	5.7	3461 7440
35	428342	Homo sapiens cDNA FLJ13458 fis, clone		Hs.349283	5.7	2432 6611
	407136	Homo sapiens cDNA FLJ11533 fis, clone		Hs.287420	5.7	113 4865
	406367	NM_022357:Homo sapiens putative metal			5.7	4804
	428949	hypothetical protein DKFZp434J0617	AA442153	Hs.104744	5.7	2490 6655
40	433075 428289	sortilin 1 complement component 2	NM_002959 M26301	Hs.3 51872 Hs.2253	5.7 5.7	2936 2937 6987 2421 2422 6603
40	438915	Williams-Beuren syndrome chromosome i			5.7	3365 7348
	413882	ESTs	AA132973	Hs.184492	5.7	750 5364
	449789	hypothetical protein DKFZp5661133	AA004300	Hs.380132	5.7	4116 7994
4.5	418574	M-phase phosphoprotein 9	N28754	Hs.351230	5.7	1258 5757
45	425295	ESTs	AA431366,	Hs.37251	5.7	2085 6360
	407824 424840	Homo sapiens cDNA FLJ14388 fis, clone	D79987	Hs.9812 Hs.153479	5.7 5.7	166 4910
	448775	extra spindle potes, S. cerevisiae, hom nudix (nucleoside diphosphate linked mo		Hs.388	5.7	2011 2012 6306 4036 4037 7927
	420005	ESTs	AW271106	Hs.133294	5.7	1407 5871
50	425048	ESTs	H05468	Hs.164502	5.7	2040 6327
	412978	homeo box C6	Al431708	Hs.820	5.7	665 5298
	409698	short stature homeobox 2	AF022654	Hs.55967	5.6	378 379 5074
•	406964	FGENES predicted novel secreted protein		11- 05045	5.6	87 88 4847
55	441016 437898	ESTs ESTs	AW138653 W81260	Hs.25845 Hs.43410	5.6 5.6	3494 7470 3293 7286
55	446619	secreted phosphoprotein 1 (osteopontin,		Hs.313	5.6	3861 7782
	414312	ESTs	AA155694	Hs.191060	5.6	800 5407
	435708	ESTs	Al362949	Hs.6439	5.6	3146 7158
co	453665	ESTs, Weakly similar to SFRB_HUMAN S	SPLI AA626250	Hs.326184	5.6	4434 8253
60	438944	KIAA1444 protein	AA302517	Hs.92732	5.6	3368 7351
	421506	thymidine kinase 1, soluble	BE302796	Hs.105097	5.6	1550 5976
	432562 434022	DKFZP586G1122 protein ESTs	BE531048 R18374	Hs.278422 Hs.117956	5.6 5.6	2887 6948
	428046	ESTs, Moderately similar to 138022 hypo		Hs.337534	5.6	3024 7057 2393 6579
65	446021	ribosomal protein L4	BE389213	Hs.286	5.6	3811 7740
	422094	F-box only protein 5	AF129535	Hs.272027	5.5	1642 1643 6041
	447200	Homo sapiens cDNA FLJ 14028 fis, clone		Hs.281434	5.5	3899 7815
	424837	N-acetyltransferase, homolog of S. cere		Hs.333034	5.5	2010 6305
70	406851	major histocompatibility complex, class	AA609784	Hs.352392	5.5	71 4838
70	432247 451407	ESTs fibroblast growth factor 12B	AA531287 AA131376	Hs.105805 Hs.343809	5.5 5.5	2859 6923 4230 8085
	418216	AF15q14 protein	AA662240	Hs.283099	5.5	1206 5721
	434149	hypothetical protein MGC5469	Z43829	Hs.244624	5.5	3030 7063
75	426265	ESTs	AA421069	Hs.97896	5.5	2189 6432
75	428058	ESTs	Al821625	Hs.191602	5.5	2395 6581
	414430	ubiquitin carboxyl-terminal esterase L1	AI346201	Hs.76118	5.5	815 5419
	450693 419260	ESTs protein kinase Njmu-R1	AW450461 H08819	Hs.203965	5.5 5.5	4182 8047 1323 5807
_	424440	ESTs	AA340743	Hs.334851 Hs.133208	5.5	1951 6266
80	408196	SRY (sex determining region Y)-box 22	AL034548	Hs.43627	5.5	199 200 4940
	439456	hypothetical protein FLJ20980	A1752409	Hs.109314	5.5	3400 7383
	422871	collagen, type XI, alpha 2	AL031228	Hs.121509	5.5	1753 1754 6123
	418255	ESTs	AW135405	Hs.37251	5.5	1209 5723
85	420805 448277	reticulon 1 hypothetical protein FLJ13044	L10333 BE622827	Hs.99947 Hs.99486	5.4 5.4	1480 1481 5926 3991 7890
	437741	putative transmembrane protein; homolog		Hs.5809	5.4	3283 7276
						•

		0044				
	413945	CD14 antigen	NM_000591		5.4	758 759 5371
	424870	ESTs	T15545	Hs.244624	5.4	2014 6308
	425157	phospholipid transfer protein	NM_006227		5.4	2057 2058 6340
5	429038	seizure related gene 6 (mouse)-like	AL023513	Hs.194766	5.4	2504 2505 6666
5	441954	Fanconi anemia, complementation group		Hs.8047	5.4	3542 7514
	409608	cadherin, EGF LAG seven-pass G-type re		Hs.55173	5.4	367 368 5065
	443907	TYRO protein tyrosine kinase binding pr		Hs.9963	5.4	3656 7617
	410342	Fc fragment of IgE, high affinity I, re	R31350	Hs.743	5.4	453 5129
10	445472	Homo saplens mRNA for KIAA0293 gene,			5.4	3773 3774 7711
10	408096	dihydrofolate reductase	BE250162	Hs.83765	5.4	189 4931
	429612	pituitary tumor-transforming 1	AF062649	Hs.252587	5.4	2586 2587 6726
	448103	hypothetical protein FLJ11362	AA968672	Hs.8929	5.4	3976 7878
	436748	collagen, type VI, alpha 2	BE159107	Hs.159263	5.4	3212 7213
15	443883	serine (or cysteine) proteinase inhibit	AA114212	Hs.9930	5.4	3653 7614
13	433570	ESTs, Weakly similar to S55916 ribosoma		Hs.109007	5.4	2988 7027
	424905	NIMA (never in mitosis gene a)-related	NM_002497		5.4	2022 2023 6315
	452106	ESTS	Al141031	Hs.21342	5,4	4289 8131
	422799	neurexophilin 4	Al933199	Hs.120911	5.4	1738 6113
20	450755	ESTS	AA010984	Hs.159464	5.3	4190 8054
20	408901	hypothetical protein FLJ10468	AK001330	Hs.48855	5.3	272 273 4997
	407756	ubiquitin specific protease 18	AA116021	Hs.38260	5.3	159 4903
	423961	periostin (OSF-20s)	D13666	Hs.136348	5.3	1878 1879 6215
	434669 446839	core histone macroH2A2.2 mitotic spindle coiled-coil related pro	AF151534	Hs.92023	5.3	3068 3069 7093
25	437162		BE091926	Hs.16244	5.3	3873 7793
23	450149	thyrold hormone receptor coactivating p Zic family member 2 (odd-paired Drosoph	AW005505	Hs.5464	5.3	3239 7237
	423354			Hs.132863	5.3	4136 8011
	452402	calcium channel, voltage-dependent, alp peroxisome proliferative activated rece	AB011130 Al138530	Hs.127436	5.3	1798 1799 6157
	401621	NM_025193:Homo sapiens 3 beta-hydrox		Hs.22216	5.3	4327 8162
30	408212	hypothetical protein		Un 42720	5.3	4656
50	447519	ESTs .	AA297567 U46258	Hs.43728	5.3	206 4945
	446674	solute carrier family 4 (anion exchange	AA563892	Hs.339665	5.3	3936 7844
	438086	nuclear receptor subfamily 1, group I,	AA336519	Hs.350401	5.3	3868 7788
	432154	ESTs	Al701523	Hs.83623 Hs.112577	5.3 5.3	3300 7293
35	424949	core-binding factor, runt domain, alpha	AF052212	Hs.153934	5.3	2846 6913 2030 6321
33	421508	absent in melanoma 2	NM_004833		5.3	1551 1552 5977
	457060	beta tubulin 1, class VI	AA402364		5.3	
	412926	macrophage myristoylated alanine-rich C		Hs.303023 Hs.75061	5.3	4538 8339 655 5290
	456364	Homo saplens, clone IMAGE:3163559, m			5.3	4520 8324
40	448966	phospholnositol 3-phosphate-binding pro		Hs.86149	5.3	
	451811	hypothetical protein MGC1136	AA663485	Hs.8719	5.3	4053 7938
	447425	acylphosphatase 1, erythrocyte (common)		Hs.18573	5.3	4259 8106 3927 7836
	406663	immunoglobulin heavy constant mu	U24683	ns. 1007 5	5.3	39 40 4818
	420596	polymerase (DNA directed), epsilon 2	NM_002692	He 9 9185	5.3 -	1467 1468 5917
45	434851	ESTs	AA806164	Hs.116502	5.3	3082 7103
	422728	MAD (mothers against decapentaplegic, D		Hs.103262	5.2	1729 6107
	418827	нтогі	BE327311	Hs.47166	5.2	1275 5770
	440700	guanine nucleotide binding protein (G p	AW952281	Hs.296184	5.2	3481 7458
	424223	putative DNA/chromatin binding motif	AJ243706	Hs.143323	5.2	1915 1916 6240
50	420301	paired box gene 5 (B-cell lineage speci	AA767526	Hs.22030	5.2	1442 5899
	425348	cadherin-like 24	AL137477	Hs.155912	5.2	2091 2092 6364
	406837	Immunoglobulin kappa constant	R70292	Hs.156110	5.2	69 4836
	432191	hypothetical protein, clone Telethon(It	AA043193	Hs.273186	5.2	2851 6916
	409625	sphingomyelin phosphodiesterase 2, neut		Hs.55235	5.2	369 5066
55	410407	carbonic anhydrase IX	X66839	Hs.63287	5.2	460 461 5135
	439653	hypothetical protein FLJ20373	AW021103	Hs.6631	5.2	3413 7396
	401797	Target Exon			5.2	4663
	443063	ESTs	Al031852	Hs.65239	5.2	3596 7564
C O	415197	hypothetical protein TAJ-alpha	D82272	Hs.283615	5.2	919 5495
60	426215	stanniocalcin 2	AW963419	Hs.155223	5.2	2187 6430
	400419	Target	AF084545		5.2	22 23 4626
	435124	ESTs	AA725362	Hs.75514	5.2	3107 7125
	416140	roundabout (axon guidance receptor, Dro		Hs.301198	5.2	978 5545
65	407719	Homo sapiens mRNA for FLJ00065 protei			5.2	152 4897
65	438115	ESTs	AI564020	Hs.122014	5.2	3304 7297
	411251	HHGP protein	R19774	Hs.22835	5.2	520 5180
	407910	fibronectin leucine rich transmembrane	AA650274	Hs.41296	5.2	180 4922
	441362	RAD51 (S. cerevisiae) homolog (E coli R		Hs.23044	5.2	3512 7486
70	433332	Homo sapiens clone TCCCTA00151 mRN			5.2	2971 7012
70	432215	ribonucleotide reductase M1 polypeptide		Hs.2934	5.2	2853 6918
	417089	Homo sapiens cDNA: FLJ21909 fis, clone		Hs.18612	5.1	1077 5619
	408495 417222	ESTs	W68796	Hs.237731	5.1	232 4963
	428977	hypothetical protein MGC2383	A1525424	Hs.42053	5.1	1089 5629
75	414011	cyclin B2 asparagine synthetase	AK001404 AA307680	Hs.194698	5.1 5.1	2496 6659 766 5377
	436679	ESTs, Weakly similar to unnamed protein		Hs.75692 Hs.120451	5.1 5.1	766 5377
	431958	cadherin 3, type 1, P-cadherin (placent	X63629	Hs.2877	5.1	3210 7211
	422997	DNA replication factor	BE018212	Hs.122908	5.1 5.1	2834 2835 6904 1766 6133
	425322	protein kinase, DNA-activated, catalyti	U63630	Hs.155637	5.1	2089 2090 6363
80	432383	Homo saplens cDNA FLJ20137 fis, clone		Hs.274449	5.1	2868 6931
-	424825	procollagen-lysine, 2-oxoglutarate 5-di	AF207069	Hs.153357	5.1	2005 2006 6302
	423897	DKFZP434N178 protein	AB033062	Hs.134970	5.1	1863 1864 6205
	407103	hypothetical protein MGC13170	AA424881	Hs.256301	5.1	110 4862
0.5	422765	bacutoviral IAP repeat-containing 5 (su	AW409701	Hs.1578	5.1	1734 6110
85	431797	hypothetical protein FLJ20280	BE169641	Hs.270134	5.1	2822 6896
	428752	ESTs	Al962660	Hs.98788	5.1	2469 6639

	4074.00	shief12a02 of Saams tastic NIUT Usma	44600000	Un 200240	E 4	440 4074
	407192 435080	gb:af12e02.s1 Soares_testis_NHT Homo: hypothetical protein FLJ14428	Al831760	Hs.155111	5.1 5.1	119 4871 3103 7122
	428479	cell division cycle 2, G1 to S and G2 t	Y00272	Hs.334562	5.1	2447 2448 6623
_	427820	inhibitor of DNA binding 2, dominant ne	BE222494	Hs.180919	5.1	2374 6563
5	403857	Target Exon		•	5.1	4730
	448111	interferon-induced protein with tetratr	AA053486	Hs.20315	5.1	3978 7880
	416908	coagulation factor XIII, A1 polypeptide	AA333990	Hs.80424	5.1	1044 5594
	428317 434349	ESTs neurobeachin	AW022609 NM_015678	Hs.50745	5.1 5.1	2431 6610 3045 3046 7074
10	451752	KIAA1171 protein	AB032997	Hs.353087	5.1	4252 4253 8102
	414132	ESTs	Al801235	Hs.48480	5.0	778 5387
	404208	C6001282:gl 4504223 ref NP_000172.1 g			5.0	4740
	444565	ESTs	W32889	Hs.154329	5.0	3707 7 <u>6</u> 59
15	426919		AL041228	Hs.166109	5.0	2284 6495
15	414245	WAS protein family, member 1	BE148072	Hs.75850	5.0	791 5399
	447217	neuropilin 2	BE465754 AA789081	Hs.17778	5.0	3904 7819
	434629 431689	glioma-amplified sequence-41 UDP-Gal:betaGicNAc beta 1,3-galactosylt		Hs.4029 Hs.267695	5.0 5.0	3064 7090 2810 6886
	421875	ESTs	AA299607	Hs.98969	5.0	1606 6016
20	420164	ESTs	AW339037	Hs.349096	5.0	1423 5884
	426788	SWI/SNF related, matrix associated, act	U66615	Hs.172280	5.0	2273 2274 6486
	436574	ESTs	AW293527	Hs.126465	5.0	3202 7204
	415052	mesenchyme homeo box 2 (growth arrest			5.0	904 905 5485
25	406868 433285	Immunoglobulin heavy constant gamma 3	(AASUS445 AW975944	Hs.300697 Hs.237396	5.0 5.0	72 4839
23	412446	ESTs ESTs	AI768015	Hs.352375	5.0	2967 7008 586 5235
	404030	NM_015669*:Homo sapiens protocadheric		18.002010	5.0	4735
	414359	cadherin 11, type 2, OB-cadherin (osteo	M62194	Hs.75929	5.0	808 5413
20	412507	EphA4	L36645	Hs.73964	5.0	596 597 5243
30	448524	hypothetical protein DKFZp762K2015	AB032948	Hs.21356	5.0	4012 4013 7908
	420397	centrosomal protein 1	NM_007018		5.0	1449 5904
	419488 459305	nucleophosmin/nucleoplasmin 3 ESTs	AA316241 AW007781	Hs.90691 Hs.249858	5.0 5.0	1342 5822
	429138	NS1-binding protein	AB020657	Hs.197298	5.0	4591 8387 2515 2516 6674
35	453511	AP-2 beta transcription factor	AL031224	Hs.33102	5.0	4422 4423 8244
	443780	activating transcription factor 5	NM_012068		5.0	3643 3644 7606
	415701	gamma-glutamyi hydrolase (conjugase, fo	NM_003878	Hs.78619	5.0	940 941 5514
	453818	hypothetical protein FLJ13449	BE256832	Hs.10711	5.0	4443 8261
40	449230	melanoma cell adhesion molecule	BE613348	Hs.356392	5.0	4074 7956
70	408161 427337	hypothetical protein MGC3032 Fc fragment of IgG, low affinity IIIb,	AW952912 Z46223	Hs.300383 Hs.176663	5.0 5.0	195 4937 2318 2319 6521
	453271	ESTs	AA903424	Hs.6786	5.0	4409 8232
	436291	protein regulator of cytokinesis 1	BE568452	Hs.344037	5.0	3180 7185
4 ~	436477	ESTs -	AA719989	Hs.107894	5.0	3191 7196
45	427747	serine/threonine kinase 12	AW411425	Hs.180655	4.9	2365 6557
	418241	LIM domain only 1 (rhombotin 1)	M26682	Hs.1149	4.9	1207 1208 5722
	458692 428865	ESTs BarH-like homeobox 1	BE549905 BE544095	Hs.231754	4.9 4.9	4579 8376
	432715	ESTs, Weakly similar to KIAA1074 protei		Hs.164960 Hs.44566	4.9 4.9	2485 6651 2901 6959
50	437608	ESTs, Weakly similar to ALU1_HUMAN A			4.9	3274 7268
	429493	ESTs	AL134708	Hs.145998	4.9	2573 6717
	424408	collagen, type V, alpha 1	Al754813	Hs.146428	4.9	1943 6260
	424624	Ca2+dependent activator protein for sec	AB032947	Hs.151301	4.9	1978 1979 6283
55	411263	kinesin-like 6 (mitotic centromere-asso	BE297802	Hs.69360	4.9	523 5182
<i>JJ</i>	417084 423811	ESTs homeo box C4	H08370 AW299598	Hs.57937 Hs.50895	4.9 4.9	1076 5618 1854 6198
	446142	ESTs	Al754693	Hs.145968	4.9	3820 7748
	413199	ELAV (embryonic lethal, abnormal vision		Hs.75236	4.9	687 688 5317
C O	434175	ESTs	AW979081	Hs.165469	4.9	3032 7065
60	423673	matrix metalloproteinase 12 (macrophage		Hs.1695	4.9	1837 6186
	422938 448498	centromere protein A (17kD) ESTs	NM_001809 AA418276		4.9	1759 1760 6128 4007 7904
	454033	homeo box HB9	AF107457	Hs.375003 Hs.37035	4.9 4.9	4483 8292
	414809	transferrin receptor (p90, CD71)	A1434699	Hs.77356	4.9	873 5463
65	424415	enolase 2, (gamma, neuronal)	NM_001975		4.9	1947 1948 6263
	410711	KIAA0318 protein	AB002316	Hs.65746	4.9	489 490 5155
	452724	cyclin E2	R84810	Hs.30464	4.9	4347 8179
•	419585	actin-like 6	T08459	Hs.259831	4.9	1359 5833
70	439453 434355	thyrold hormone receptor interactor 13 ESTs	BE264974 AA630865	Hs.6566 Hs.186556	4.9 4.9	3399 7382 3049 7076
, 0	418203	CDC28 protein kinase 2	X54942	Hs.83758	4.9	1202 1203 5719
	430552	nuclear autoantigenic sperm protein (hi	AA176374	Hs.243886	4.9	2709 6812
	424954	tumor protein p53 (LI-Fraumeni syndrome	NM_000546	Hs.1 846	4.9	2031 2032 6322
75	446291	interferon, gamma-inducible protein 30	BE397753	Hs.14623	4.8	3833 7760
13	448381 453884	Homo sapiens mRNA; cDNA DKFZp434A			4.8	3996 7895
-	453664 427407	KIAA0186 gene product ADP-ribosyltransferase (NAD; poly (ADP-	AA355925 RE268649	Hs.36232 Hs.177766	4.8 4.8	4460 8274 2326 6526
	433202	KIAA1465 protein	AB040898	Hs.233335	4.8 4.8	2951 2952 6998
00	417911	chaperonin containing TCP1, subunit 6A		Hs.82916	4.8	1166 5689
80	453883	cofactor required for Sp1 transcription	A1638516	Hs.347524	4.8	4459 8273
	406698	major histocompatibility complex, class	X03068	Hs.73931	4.8	51 52 4824
	437007	ESTs, Weakly similar to I38022 hypothet		Hs.202599	4.8	3230 7229
	414341 452908	KIAA0182 protein neuronal Shc adaptor homolog	D80004 AB001451	Hs.75909 Hs.30965	4.8 4.8	804 805 5410 4369 4370 8198
85	407811	cysteine knot superfamily 1, BMP antago		Hs.40098	4.6 4.8	164 4908
	446681	kendrin	AJ003624	Hs.15896	4.8	3869 7789

	448663	hypothetical protein MGC14797	BE614599	Hs.356501	4.8	4023 7915
	409529	Cdc42 guanine exchange factor (GEF) 9	AB007884	Hs.54697	4.8	355 356 5058
	406687	matrix metalloproteinase 11 (stromelysi	M31126	Hs.352054	4.8	49 50 4823
_	401827	Target Exon			4.8	4664
5	416801	sal (Drosophila)-like 2	X98834	Hs.79971	4.8	1032 5585
	409125	exonal transport of synaptic vesicles	R1726B	Hs.343567	4.8	308 5024
	407785	ESTs, Weakly similar to A43932 mucin 2		Hs.98279	4.8	160 4904
	400262	Eos Control	7117207200	Hs.75309	4.8	4612
	424878	ESTs	H57111	Hs.221132	4.8	
10	411089	cell division cycle 2-like 1 (PITSLRE p	AA456454			2017 6311
10	450377			Hs.214291	4.8	513 5173
		KIAA1265 protein	AB033091	Hs.355925	4.8	4160 4161 8029
	428293	solute carrier family 1 (neutral amino	BE250944	Hs.183556	4.8	2424 6605
	416111	chromatin assembly factor 1, subunit A	AA033813	Hs.79018	4.8	975 5542
15	411296	growth suppressor 1	BE207307	Hs.10114	4.8	524 5183
15	405770	NM_002362:Homo sapiens melanoma an			4.8	4796
	436252	Homo saplens cDNA FLJ 11562 fis, clone	H AI539519	Hs.142827	4.8	3179 7184
	407871	ESTs	AA045368	Hs.98317	4.8	174 4917
	421524	GDNF family receptor alpha 1	AA312082	Hs.105445	4.8	1556 5980
~~	413670	hypothetical protein, expressed in oste	AB000115	Hs.75470	4.8	735 736 5352
20	410261	schwannomin-interacting protein 1	AF145713	Hs.61490	4.8	439 440 5119
	433487	histone deacetylase 2	U31814	Hs.3352	4.8	2983 2984 7023
	431019	forkhead box G1B	NM_005249	Hs .2714	4.8	2740 2741 6834
	447321	Homo sapiens cDNA FLJ14028 fis, clone			4.8	3915 7827
	425308	receptor tyrosine kinase-like orphan re	M97639	Hs.155585	4.8	2087 2088 6362
25	433013	axin 2 (conductin, exil)	A1697890	Hs.127337	4.8	2927 6979
	419682	paired-like homeodomain transcription f	H13139	Hs.92282	4.8	1368 5841
	431863	spindlin	AA188185	Hs.289043		
	406311	NM_021979*:Homo saplens heat shock 7		115.205045	4.8	2829 6901
	405754	Target Exon	UND		4.7	4803
30	424078		ADODCCOC	11- 420022	4.7	4795
20,		paternally expressed 3	AB006625	Hs.139033	4.7	1893 1894 6225
,	423011	adrenergic, alpha-2C-, receptor	NM_000683		4.7	1767 1768 6134
	458933	RAN binding protein 1	Al638429	Hs.24763	4.7	4584 8381
	435523	membrane-spanning 4-domains, subfamil		Hs.11090	4.7	3131 7147
25	453990	ESTs	AW014847	Hs.233331	4.7	4478 8288
35	408539	fibulin 1	`AA421528	Hs.349607	4.7	237 4968
	417944	collagen, type V, atpha 2	AU077196	Hs.82985	4.7	1172 5693
	400235	NM_005336:Homo saplens high density li		Hs.177516	4.7	4604
	410868	Homo sapiens cDNA FLJ11490 fis, clone	H T06529	Hs.98518	4.7	500 5163
4.0	439452	B-cell CLL/lymphoma 11B (zinc finger pr	AA918317	Hs.57987	4.7	3398 7381
40	451987	Homo saplens cDNA FLJ14967 fis, clone	T AA815092	Hs.77554	4.7	4267 8114
	410781	ESTs	Al375672	Hs.165028	4.7	495 5159
	458207	U2 small nuclear ribonucleoprotein auxi	T28472	Hs.7655	4.7	4569 8366
	448633	tubulin, gamma 1	AA311426	Hs.21635	4.7	4021 7913
_	426287	calpain 6	AF029232	Hs.169172-		2194 2195 6436
45	430280	Interleukin 7 receptor	AA361258	Hs.237868	4.7	2673 6787
	423449	ESTs	Al497900	Hs.57937	4.7	1808 6164
	414034	early development regulator 1 (homolog	U89277	Hs.305985	4.7	771 772 5381
	443715	cyclin E1	Al583187	Hs.9700	4.7	
	412006	ESTs				3638 7601
50	420162	cyclin-dependent kinase 4	AW451618 BE378432	Hs.380683	4.7	565 5217
50				Hs.95577	4.7	1422 5883
	· 408660	ESTs, Moderately similar to PC4259 ferr		Hs.89040	4.7	247 4977
	427701	nuclear autoantigenic sperm protein (hi	AA411101	Hs.243886	4.7	2362 6555
	410006	eukaryotic translation initiation facto	AW732308	Hs.57783	4.7	405 5095
55	411773	protease, serine, 21 (testisIn)	NM_006799		4.7	551 552 5206
"	437597	SCG10-like-protein	AA730767	Hs.285753	4.7	3273 7267
	458079	Homo sapiens similar to RIKEN cDNA 28		Hs.381220	4.7	4566 8363
	425801	gb:HSC14H051 normalized Infant brain of		Hs.343666	4.7	2144 6397
	428392	secretory granule, neuroendocrine prote		Hs.2265	4.7	2434 6613
6 0	443623	complement component 1, q subcompone			4.7	3631 7594
60	443802	KIAA1291 protein	AW504924	Hs.9805	4.7	3647 7609
	449267	ESTs	A1638640	Hs.220624	4.7	4077 7959
	436703	RNA binding motif protein, X chromosome	AW880614	Hs.374352	4.7	3211 7212
	400991	Target Exon			4.7	4641
	442573	branched chain aminotransferase 1, cyto	H93366	Hs.7567	4.7	3570 7541
65	450298	hepatocyte growth factor-regulated tyro	AL041949	Hs.24756	4.7	4153 8023
	411962	gb:zk85d12.r1 Soares_pregnant_uterus_l	Nb AA099050		4.7	563 5215
	440516	cadherin 2, type 1, N-cadherin (neurona		Hs.161	4.7	3472 3473 7451
	429024	complement-c1q tumor necrosis factor-re	AI652297	Hs.119302	4.7	2502 6664
	414561	Homo sapiens amino acid transport syste		Hs.195155	4.7	831 5432
70	402992	Target Exon			4.7	4700
	417312	leukemia-associated phosphoprotein p18	AW888411	Hs.250811	4.7	1095 5635
	437437	hypothetical protein DKFZp762L0311	AA226869	Hs.351623	4.7	3262 7257
	450534	KIAA0470 gene product	AI570189	Hs.25132	4.6	
	429183	KIAA0704 protein	AB014604	Hs.197955	4.6	4175 8040 2526 2527 6681
75	421707	lectomedin-2	NM_014921		4.6	
-	433159	kinesin-like protein 2	AB035898	Hs.150587		1581 1582 5995
	408949	putative ribonuclease III	AF189011		4.6	2947 2948 6996
	407366	gb:Homo saplens cig33 mRNA, partial ser		Hs.49163	4.6	280 281 5003
	442932	bromodornain adjacent to zinc finger dom		Hs.17518	4.6	137 4885
80	442932 450336	Homo sapians cDNA: FLJ23296 fis, clone		Hs.8858	4.6	3591 7559
50				Hs.288928	4.6	4155 8025
	448044	gb:lk13e01.x1 NCI_CGAP_Lu24 Homo sa			4.6	3972 7874
	445564	KIAA1034 protein	AB028957	Hs.12896	4.6	3784 3785 7718
	450356	KIAA1674	BE149824	Hs.132888	4.6	4156 8026
85	406137	NM_000179*:Homo sapiens mutS (E. coli			4.6	4802
~ 1	423731	gb:EST06706 Infant Brain, Bento Soares	TDRR14	Hs.31599	4.6	1020 6100
05	425003	apurinic/apyrimidinic endonuclease(APEX	100017	Hs.154149	4.6	1839 6188 2038 2039 6326

	405268	ENSP00000223174*:KIAA0783 PROTEIN	.		4.6	4776
	408989	KIAA0746 protein	AW361666	Hs.49500	4.6	290 5010
	426400	Homo sapiens clone 25121 neuronal offac	M78361	Hs.169743	4.6	2218 6452
_	423419	ESTs	R55336	Hs.23539	4.6	1806 6162
5	453753	ubiquitin specific protease 1	BE252983	Hs.35086	4.6	4437 8256
	439070	ESTs	AI733278	Hs.7621	4.6	3375 7358
	426095	ESTs	Al278023	Hs.89986	4.6	2172 6419
	406076	Homo sapiens mRNA; cDNA DKFZp547P	134 (f		4.6	4800
10	408393	ESTs	AW015318	Hs.143509	4.6	219 4953
10	439246	membrane-associated tyrosine- and threo	AJ498072	Hs.351474	4.6	3386 7369
	435013	NM_020142:Homo sapiens NADH:ubiquin	ione H91923	Hs.110024	4.6	3096 7115
	408190	ATPase, Class I, type 8B, member 2	AB032963	Hs.43577	4.6	197 198 4939
	426110 _	replication factor C (activator 1) 1 (1	NM_002913	Hs.1 66563	4.6	2174 2175 6421
	420058	Homo saplens cDNA FLJ10561 fis, clone	N AK001423	Hs.94694	4.6	1411 5874
15	418045	ESTs	Al972919	Hs.118837	4.6	1183 5701
	424005	vang (van gogh, Drosophila)-like 2	AB033041	Hs.137507	4.6	1883 1884 621B
	416209	MAD2 (mitotic arrest deficient, yeast,	AA236776	Hs.79078	4.6	982 5549
	453905	LIM domain kinase 1	NM_002314	Hs.3 6566	4.6	4462 4463 8276
	429986	sine oculis homeobox (Drosophila) homol	AF092047	Hs.227277	4.6	2632 2633 6759
20	414706	KiAA0097 gene product	AW340125	Hs.76989	4.6	854 5449
	435832	Bruno (Drosophila) -like 4, RNA binding	AA425688	Hs.41641	4.6	3155 7164
	429574	hypothetical protein MGC861	BE268321	Hs.208912	4.6	2580 6722
	424192	P311 protein	U30521	Hs.142827	4.6	1911 1912 6238
~~	432101	EphA3	Al918950	Hs.123642	4.6	2841 6909
25	403650	dynein, cytoplasmic, light polypeptide			4.6	4726
	426118	polymerase (DNA directed), epsilon	AF128542	Hs.166846	4.6	2176 2177 6422
	435232	cyclin-dependent kinase Inhibitor 2C (p	NM_001262	Hs.4 854	4.5	3114 3115 7132
	452017	prostate cancer associated protein 7	AF109302	Hs.27495	4.5	4270 8117
20	453922	budding uninhibited by benzimidazoles 1	AF053306	Hs.36708	4.5	4467 4468 8279
30	423853	slit (Drosophila) homolog 1	AB011537	Hs.133466	4.5	1855 1856 6199
	442904	thymopoietin	AW575008	Hs.11355	4.5	3588 7556
	420911	O-linked N-acetylglucosamine (GlcNAc) t	U77413	Hs.100293	4.5	1491 1492 5934
	438833	ESTs	BE612940	Hs.88252	4.5	3358 7342
0.5	447284	hypothetical protein FLJ10204	AK001066	Hs.18029	4.5	3912 3913 7825
35	452732	Homo sapiens, clone IMAGE:3535294, m	RNA BE30007	'8 Hs.80449	4.5	4348 8180
	444170	ESTs	AW613879	Hs.102408	4.5	3683 7640
	435256	cytokine-like protein C17	AF193766	Hs.13872	4.5	3116 3117 7133
	422239	SMT3 (suppressor of mif two 3, yeast) h	Al878922	Hs.180139	4.5	1662 6057
40	406836	immunoglobulin kappa constant	AW514501	Hs.156110	4.5	68 4835
40	448985	carbonic anhydrase XI	AA324885	Hs.22777	4.5	4054 7939
	404632	NM_022490:Homo sapiens hypothetical p	ro		4.5	4754
	410768	Homo sapiens clone 23700 mRNA seque	nce AF03818	5 Hs.66187	4.5	494 5158
	434862	ESTs	AA652272	Hs.197320	4.5	3084 7105
45	448772	L-kynurenine/alpha-aminoadipate aminotr	AW390822	Hs.380762	4.5	4035 7926
45	418565	phospholnositol 3-phosphate-binding pro	AK001529	Hs.86149	4.5	1256 1257 5756
	418607	KIAA1402 protein	AL137426	Hs.86392	4.5	1260 5759
	429455	CD209 antigen	Al472111	Hs.278694	4.5	2563 6710
	447478	fibronectin type 3 and SPRY domain-cont	BE618843	Hs.28144	4.5	3932 7840
5 0	416640	neuron-specific protein	BE262478	Hs.13406	4.5	1019 5576
50	452792	KIAA1344 protein	AB037765	Hs.30652	4.5	4351 4352 8183
	423181	ESTs	AA323415	Hs.278385	4.5	1779 6144
	444664	map kinase phosphatase-like protein MK-	N26362	Hs.11615	4.5	3711 7663
	429320	ESTs, Weakly similar to 178885 serine/t	AA449838	Hs.119334	4.5	2545 6697
<i>5 5</i>	422575	hypothetical protein FLJ20539	AK000546	Hs.118552	4.5	1705 1706 6089
55	438293	stromal antigen 2	L08437	Hs.8217	4.5	3314 7305
	453096	ESTs	AW294631	Hs.351270	4.5	4391 8217
	452277	KIAA1223 protein	AL049013	Hs.28783	4.5	4308 8148
	424927	hypothetical protein C321D2.4	AW973666	Hs.153850	4.5	2029 6320
60	417576	phosphoribosylglyclnamide formyltransfe		Hs.82285	4.5	1134 5662
60	440510	ESTs, Weakly similar to ISHUSS protein	H08427	Hs.309165	4.5	3471 7450
	430066	signal recognition particle 72kD	Al929659	Hs.237825	4.5	2647 6769
	422382	KIAA0166 gene product	D79988	Hs.115778	4.5	1674 1675 6066
	452461	transcription factor	N78223	Hs.108106	4.5	4333 8167
65	422684	H2A histone family, member Z	BE561617	Hs.119192	4.5	1726 6105
05	416980	high-mobility group (nonhistone chromos		Hs.80684	4.5	1054 5601
	414907	polo (Drosophla)-like kinase ESTs	X90725	Hs.77597	4.5	886 887 5472
	433706	ESTs, Weakly similar to 178885 serine/t	AW947250	Hs.151604	4.5	3001 7037
	417777		AI823763 D26018	Hs.7055	4.5	1156 5679
70	417731 447417	polymerase (DNA directed), delta 3 KIAA1602 protein	AW732858	Hs.82502	4.5	1152 1153 5876
70	421302	neuritin		Hs.143067	4.5	3926 7835
	456940	ESTs	T34462 H46986	Hs.103291	4.5 4.5	1527 5962
	447250	protein phosphatase 1G (formerly 2C), m		Hs.31861 Hs.17883	4.5	4534 8336 3906 7821
	409139	ESTs, Highly similar to IRX1_HUMAN IR(Hs.3321	4.5	
75	405326	Target Exon	- a muu 1311	. 10.002	4.5 4.5	311 5026 4777
	400340	homeo box 11-like 2	AJ223798		4.5	12 13 4621
	433149	hypothetical protein HES6	BE257672	Hs.42949	4.5	2946 6995
	431301	ESTs	AA502384	Hs.151529	4.5	2773 6858
	419131	ESTs	AA406293	Hs.109526	4.5 4.5	1306 5794
80	412314	downstream of: G protein-coupled recept		Hs.356084	4.5	581 5230
	414175	hypothetical protein DKFZp761D112	Al308876	Hs.103849	4.5	786 5394
	431830	small inducible cytokine subfamily A (C	Y16645	Hs.271387	4.5	2827 2828 6900
	438937	ESTs	AW952654	Hs.73964	4.5	3367 7350
0.5	418199	ESTs	AAB84555	Hs.86603	4.5	1201 5718
85	440080	ESTs	AW051597	Hs.143707	4.5	3449 7431
	441020	ESTs	W79283	Hs.35962	4.5	3495 7471

	443725	growth arrest and DNA-damage-inducible		Hs.9701	4.5	3639 7602
	425219	cytosolic ovarian carcinoma antigen 1	AF207881	Hs.155185	4.5	2067 2068 6347
	422128 454075	gb:QV0-OT0033-010400-182-a07 OT003 Kruppel-like zinc finger protein GLIS2				1650 6047
5	412432	ESTs	R43826 AA126311	Hs.16313 Hs.9879	4.5 4.4	4489 8297 585 5234
•	406672	major histocompatibility complex, class	M26041	Hs.198253	4.4	43 44 4820
	442328	ESTs, Weakly similar to ALU4_HUMAN A	LU A1952430	Hs.150614	4.4	3556 7528
	414883	CDC28 protein kinase 1	AA926960	Hs.348669	4.4	885 5471
10	413004	interleukin enhancer binding factor 2,	T35901	Hs.75117	4.4	667 5300
10	424394	RNA binding motif protein, X chromosome	BE277024	Hs.146381	4.4	1941 6258
	454561	hepatitis delta antigen-interacting pro	A1984144	Hs.66713	4.4	4502 8308
	420129	ESTs	AA255760	Hs.122994	4.4	1417 5879
	424410 411562	ESTs hypothetical protein DKFZp586E1923	W79027	Hs.271762	4.4	1944 6261
15	422516	multifunctional polypeptide similar to	AL050201	Hs.70769	4.4	541 5198
20	452160	cysteine sulfinic actd decarboxylase-re	BE258862 BE378541	Hs.117950 Hs.355568	4.4 4.4	1694 6080 4292 8134
	412659	olfactomedin related ER localized prote	AW753865	Hs.74376	4.4	627 5265
	439239	ESTs	AJ031540	Hs.235331	4.4	3385 7368
~~	407896	Zic family member 1 (odd-paired Drosoph		Hs.41154	4.4	176 177 4919
20	408805	vaccinia related kinase 1	H69912	Hs.48269	4.4	262 4989
	414839	DNA (cytosine-5-)-methyltransferase 1	X63692	Hs.77462	4.4	880 881 5467
	424451	protein tyrosine phosphatase, non-recep	M83738	Hs.147663	4.4	1955 1956 6269
	425368	culin 4B	AB014595	Hs.155976	4.4	2096 2097 6367
25	425159 422795	carbamoyi-phosphate synthetase 2, aspa KIAA1283 protein		Hs.154868	4.4	2059 2060 6341
	414725	ring finger protein 21, Interferon-resp	AB033109 AA769791	Hs.375610 Hs.350518	4.4 4.4	1736 1737 6112
	422244	karyopherin (importin) beta 3	Y08890	Hs.113503	4.4	858 5452 1665 1666 6059
	454060	ephrin-A3	U14187	Hs.37054	4.4	4485 4486 8294
	416507	transcription factor Dp-1	AL045364	Hs.79353	4.4	1009 5569
30	430439	DKFZP434B061 protein	AL133561	Hs.380155	4.4	2695 2696 6803
	429656	neurofilament, light polypeptide (68kD)	X05608	Hs.211584	4.4	2598 2599 6733
	420174	ESTs	Al824144	Hs.199749	4.4	1427 5887
	420440	mammaglobin 2	NM_002407		4.4	1450 1451 5905
35	433211	MARK	H11850	Hs.12808	4.4	2955 7000
33	421102	protocadherin beta 6	AI470093	Hs.283085	4.4	1506 5945
	450746	general transcription factor il, i	D82673	Hs.278589	4.4	4187 8051
	414733 426512	minichromosome maintenance deficient (Hs.77171	4.4	860 5454
	414760	Meis1 (mouse) homolog chromobox homolog 1 (Drosophila HP1 b	AW511656	Hs.170177	4.4	2245 6469
40	434256	ESTs	Al378817	Hs.77254 Hs.191847	4.4 4.4	864 5457
. •	450553	hypothetical protein MGC3232	AW850613	Hs.8715	4.4	3036 7068 4176 8041
	449433	ESTs, Weakly similar to S26650 DNA-bin		Hs.9012	4.4	4086 7968
	430027	KIAA0980 prolein	AB023197	Hs.227743	4.4	2639 2640 6763
-4 =	402861	Wilms' tumour 1-associating protein		-	4.4	4695
45	449989	multiple endocrine neoplasia i	U93237	Hs.240443	4.4	4124 4125 8002
	424616	intercellular adhesion molecule 5, tele	U72671	Hs.151250	4.4	1975 1976 6281
	414528	ESTs	AA148950	Hs.188836	4.4	828 5429
	414133 411893	ESTs	AW022188	Hs.109526	4.3	779 5388
50	410099	ESTs . KIAA0036 gene product	R82845 AA081630	Hs.273789 Hs.167	4.3	558 5211
-	422565	singed (Drosophila)-like (sea urchin fa	BE259035	Hs.118400	4.3 4.3	421 5106 1701 6086
	410054	Homo sapiens cDNA: FLJ23005 fis, clone		Hs.58220	4.3	413 5101
	437330	Homo sapiens mRNA; cDNA DKFZp761J				3253 7250
c ~	457986	Homo sapiens, clone IMAGE:4299555, m	RNA AA78174	5 Hs.126920	4.3	4565 8362
55	447660	ESTs	AW160386	Hs.163667	4.3	3946 7853
	412800		AW950852	Hs.74598	4.3	644 5281
	409326	choreoacanthocytosis gene; KIAA0986 pri		Hs.53542	4.3	340 5046
	437623	chromosome condensation-related SMC-a	3SS D63880	Hs.5719	4.3	3275 3276 7269
60	426990 405387	Homo sapiens mRNA for KIAA1750 protei NM_022170°:Homo sapiens Williams-Beu		HS.173094	4.3	2293 6501
00	413644	ESTs, Weakly similar to Z195_HUMAN ZI	NC BE184010	Un 279702	4.3	4779
	457313	transcriptional coactivator		Hs.241520	4.3 4.3	733 5350 4544 4545 8345
	416084	deoxythymidylate kinase (thymidylate ki		Hs.79006	4.3	972 973 5540
<i></i>	429150	smoothened (Drosophila) homolog		Hs.197366	4.3	2519 2520 6677
65	453028	RecQ protein-like 4		Hs.31442	4.3	4381 4382 8209
	425776	parathyroid hormone receptor 2	U25128	Hs.159499	4.3	2138 2139 6394
	433895	milogen-activated protein kinase kinase		Hs.3628	4.3	3014 7048
	435554	early B-cell factor		Hs.32425	4.3	3136 3137 7150
70	419356	hypothetical protein FLJ22316	Al656166	Hs.7331	4.3	1332 5815
70	452744 409703	Homo sapiens mRNA; cDNA DKFZp434E				4350 8182
	408847	2-5-oligoadenylate synthetase 3 (100 ESTs	NM_006187 I AW290997		4.3	381 382 5076
	436114	ESTs, Highly similar to NRG3_HUMAN PR	₩₩230331 ₹ № ΔΔ778232	Hs.190153	4.3 4.3	268 4993
	425870	ESTs			4.3	3171 7177 2153 6405
75	433411	RNA binding motif protein 4			4.3	2975 7016
	443123	putative transcription regulation nucle	AA094538		4.3	3603 7570
	413431	ubiquitin-conjugating enzyme E2N (homol	AW246428		4.3	715 5335
	414136	SMC2 (structural maintenance of chromos	AA812434		4.3	780 5389
80	443823	hypothetical protein			4.3	3649 7611
SU	424560	protein predicted by clone 23733			4.3	1972 6279
	445139 403668	synaptotagmin XIII	AB037848		4.3	3746 3747 7691
	403668 412672	Target Exon chromodomain helicase DNA binding prote	AA459040 1		4.3	4727
	410268					628 5266
85	422175				4.3 4.3	441 5120 1657 6053
-	440001	:			4.3 4.3	1657 6053 3445 7427
		-				

	454104	hypothetical protein MGC2555	BE275031	Hs.158210	4.3	4491 8299
	417588	gb:HSC22D091 normalized infant brain c	D Z44510		4.3	1135 5663
	412046	RAS-related on chromsome 22	Y07847	Hs.73088	4.3	567 568 5219
_	400295	Al905687:IL-BT095-190199-019 BT095 I	iomo W72838	Hs.348419	4.3	6 4617
5	438407	eukaryotic translation initiation facto	Al457122	Hs.129673	4.3	3320 7310
	420759	Homo saplens cDNA FLJ11381 fis, clone		Hs.127797	4.3	1476 5922
	442404	ESTs	A1733500	Hs.124370	4.3	3558 7530
	421878	Homo sapiens cDNA FLJ11643 fis, clone	H AA299652	Hs.111496	4.3	1607 6017
10	436420	ESTs	AA443966	Hs.31595	4.3	3187 7192
10	421040	ESTs	AA715026	Hs.135280	4.3	1498 5938
	414242	dolichyl-phosphate (UDP-N-acetylglucosa		Hs.143509	4.3	790 5398
	427961	ESTs	AW293165	Hs.143134	4.3	2388 6575
	436251	nucleolar protein (KKE/D repeat)	BE515065	Hs.296585	4.3	3178 7183
15	424026	ribosomal protein L34 pseudogene 1	Al798295	Hs.137576	4.3	1888 6221
13	423803	PDZ-73 protein	NM_005709		4.3	1852 1853 6197
	418661	E2F transcription factor 3	NM_001949		4.3	1264 1265 5762
	454340	gb:PM0-HT0339-081199-001-h05 HT033				4496 8303
	443950	epithelial membrane protein 3	NM_001425		4.3	3660 3661 7621
20	448057	RAB39	BE300105	Hs.301853	4.3	3973 7875
20	402260	NM_001436*:Homo saplens fibrillarin (FB		11 40-000	4.3 .	4676
	412651	ESTS	AA115333	Hs.107968	4.3	625 5263
	421846	protein kinase C substrate 80K-H	AA017707	Hs.1432	4.3	1601 6012
	439053 416565	chaperonin containing TCP1, subunit 2 (Hs.6456	4.3	3374 7357
25	434792	endoplasmic reticulum resident protein	AW000960	Hs.44970	4.3	1015 5573
2,5	439512	ESTS	AA649253	Hs.132458	4.3	3075 7099
	426867	Homo sapiens, clone IMAGE:3163559, m ESTs			4.3	3403 7386
	443674	ESTs	AA460967	Hs.22668	4.3	2282 6493
	431374	CTP synthase	Al081330 BE258532	Hs.40510	4.3	3635 7598
30	428309	cellular retinoic acld-binding protein		Hs.251871	4.3	2778 6862
50	452046	KIAA0802 protein	M97815 AB018345	Hs.183650	4.3	2427 2428 6608
	413273	stem-loop (histone) binding protein	U75679	Hs.27657	4.3	4275 4276 8120
	429984	hypothetical protein FLJ21617	AL050102	Hs.75257	4.3 4.3	693 694 5321
	453880	ESTs, Weakly similar to 138022 hypothet		Hs.227209 Hs.135121	4.3 4.3	2630 2631 6758
35	417866	collagen, type XI, alpha 1	AW067903		4.3 4.3	4458 8272
-	427495	Homo sapiens cDNA FLJ11333 fis, clone		Hs.82772 Hs.178705	4.3 4.3	1162 5685
	417061	Homo sapiens cDNA FLJ12033 fis, clone		Hs.188691	4.3 4.3	2335 6533
	446849	cleavage and polyadenylation specific f	AU076617	Hs.16251	4.2	1068 5612
	400250	Eos Control	A0010011	Hs.3352	4.2	3874 7794
40	429918	ESTs	AW873986	Hs.119383	4.2	4608
	448390	hypothetical protein	AL035414	Hs.21068	4.2	2619 6748 3999 7897
	433234	KIAA1495 protein	AB040928	Hs.65366	4.2	
	412795	special AT-rich sequence binding protei	BE241753	Hs.74592		2961 2962 7005 643 5280
_	422830	hypothetical protein DKFZp434P0111	AC007954	Hs.121371	4.2	1746 1747 6118
43	421937	hematological and neurological expresse		Hs.109706	4.2	1617 6024
	427716	karyopherin (importin) beta 1	L38951	Hs.180446	4.2	2363 2364 6556
	402330	Target Exon		110.100110	4.2	4678
	412939	eukaryotic translation elongation facto	AW411491	Hs.75069	4.2	657 5292
	449436	hypothetical protein DKFZp434I2117	AA860329	Hs.279307	4.2	4087 7969
50	420582	Homo sapiens chromosome 19, cosmid F			4.2	1464 5915
	413313	glycyl-tRNA synthetase	NM_002047		4.2	699 700 5325
	406534	Target Exon			4.2	4809
	422173	phorbolin-like protein MDS019 (CEM15)	BE385828	Hs.250619	4.2	1656 6052
	417037	antigen identified by monoclonal antibo	BE083936	Hs.80976	4.2	1063 5608
55	418583	hypothetical protein	AA604379	Hs.86211	4.2	1259 5758
	418196	KIAA1708 protein	A1745649	Hs.26549	4.2	1199 5716
	429399	ESTs	AA452244	Hs.16727	4.2	2556 6705
	450172	signal transduction protein (SH3 contai	NM_005864	Hs.2 4587	4.2	4139 4140 8014
60	446627	hypothetical protein SBB148	A1973016	Hs.15725	4.2	3862 7783
60	418956	KIAA0788 protein	AA234831	Hs.348493	4.2	1287 5778
	438626	ESTs	Al 198059	Hs.26370	4.2	3342 7328
	419335	hypothetical protein FLJ12888	AW960146	Hs.284137	4.2	1330 5813
	444153	hypothetical protein FLJ10748	AK001610	Hs.10414	4.2	3680 3681 7638
65	421949	G8 protein	N47378	Hs.109798	4.2	1620 6026
05	417410	PC4 and SFRS1 interacting protein 1	AF063020	Hs.82110	4.2	1114 1115 5651
	438662	cleavage and polyadenylation specific f	AA223599	Hs.6351	4.2	3345 7330
	454390	KIAA0906 protein	AB020713	Hs.56966	4.2	4497 4498 8304
	430130	Homo sapiens mRNA; cDNA DKFZp761G				2650 2651 6772
70	425966	cyclin F	NM_001761		4.2	2158 2159 6409
70	430030 436045	lectin, galactoside-binding, soluble, 1	BE300094	Hs.227751	4.2	2641 6764
	429250	DKFZP564O0423 protein	AB037723	Hs.5028	4.2	3169 3170 7176
	428099	tryptophan rich basic protein	H56585	Hs.198308	4.2	4541 6688
	408932	ESTs TP53TG3 protein	AA421288	Hs.149025	4.2	2397 6583
75	434371	KIAA1283 protein	AW594172	Hs.278513	4.2	277 5000
	412723	hypothetical protein AF301222	AA631362	Hs.120866	4.2	3050 7077
	445162	piccolo (presynaptic cytomatrix protein	AA648459 AB011131		4.2·	634 5271
	410211	zinc finger protein	AB011131	Hs.12376	4.2	3749 3750 7693
	420230	forkhead box C1	NM_014347 AL034344		4.2	431 432 5114
80	458300	ribosomal protein L31	AU34344 AW580932	Hs.284186 Hs.164170	4.2 4.2	1434 1435 5893
	432618	hypothetical protein MGC2705	AA557284		4.2 4.2	4572 8370
	416224	reticulocalbin 2, EF-hand calcium bindi	NM_002902		4.2 4.2	2893 6952
	421917	KIAA1020 protein	AB028943		4.2 4.2	983 984 5550
	456759	delta (Drosophila)-like 3	8E259150		4.2 4.2	1612 1613 6021 4528 8331
85	404420	C8001064*:glj6754928 ref NP_035989.1	0		4.2 4.2	4748
	426981	KIAA0530 protein	AL044675		4.2 4.2	2292 6500
		•	, , _ , •			

	419900	ESTs	AJ469960	Hs.170598	4.2	1392 5860
	420028	carbohydrate (N-acetylglucosamine-6-0)		Hs.8786	4.2	1408 1409 5872
	408633	PRO2000 protein	AW963372	Hs.222088	4.2	245 4975
_	440716	ESTs	AW105245	Hs.307082	4.2	3485 7461
5	440491	ESTs, Weakly similar to 2109260A B cell		Hs.130558	4.2	3468 7447
	425848	valyI-IRNA synthetase 2	BE242709	Hs.159637	4.2	2150 6402
	413097	ankyrin repeal-containing protein	BE383876	Hs.75196	4.2	681 5312
	424649	embryonic ectoderm development	BE242035	Hs.151461	4.2	1983 6286
10	408621	chromosome 11 open reading frame 8	A1970672	Hs.46638	4.2	244 4974
10	445255	synaptosomal-associated protein, 91 kDa			4.2	3753 3754 7696
	406648	major histocompatibility complex, class	AA563730	Hs.277477	4.2	38 4817
	424130	Homo sapiens mRNA; cDNA DKFZp586L				1903 6232
	438253	hypothetical protein from EUROIMAGE 21	10 X65230	Hs.38004	4.2	3311 3312 7303
1.5	413010	transcription factor 6-like 1 (mitochen	AA393273	Hs.75133	4.2 ·	668 5301
15	430390	KIAA0969 protein	AB023186	Hs.343666	4.2	2686 2687 6797
	441495	ESTs	AW294603	Hs.127039	4.2	3521 7494
	452256	Homo sapiens cDNA FLJ10071 fis, clone	H AK000933	Hs.28661	4.2	4306 8146
	423198	cell division cycle 25A	M81933	Hs.1634	4.2	1780 1781 6145
00	431393	ESTs, Highly similar to cytokine recept	AW971493	Hs.134269	4.2	2780 6864
20	418283	cathepsin K (pycnodysostosis)	S79895	Hs.83942	4.2	1210 1211 5724
	447078	ESTs	AW885727	Hs.9914	4.2	3888 7805
	443698	hypothetical protein FLJ12529	AW961106	Hs.169100	4.2	3636 7599
	436957	ESTs	AA902488	Hs.122952	4.2	3228 7227
25	443898	Sec61 gamma	AW804296	Hs.9950	4.2	3655 7616
25	432265	SCG10-like-protein	BE382679	Hs.285753	4.1	2860 6924
	400205	NM_006265*:Homo sapiens RAD21 (S. p.		Hs.81848	4.1	4598
	414178	ESTs, Weakly similar to 138022 hypothet	AW957372	Hs.46791	4.1	788 5396
	435593	DKFZP586J1624 protein	R88872	Hs.4964	4.1	3141 7153
20	402233	NM_030760*:Homo sapiens endothelial d	ìf		4.1	4674
30	409200	KIAA0076 gene product	AL042914	Hs.51039	4.1	325 5037
	408772	ESTs	W88532	Hs.254562	4.1	256 4985
	438930	hypothetical protein AL110115	AW843633	Hs.343261	4.1	3366 7349
	441749	ESTs	AW450805	Hs.199316	4.1	3536 7508
~~	411395	KIAA1802 protein	AA889673	Hs.7542	4.1	532 5190
35	441094	MYC-associated zinc finger protein (pur	U33819	Hs.7647	4.1	3497 3498 7473
	453896	KIAA1853 protein	AW293483	Hs.255205	4.1	4461 8275
	446073	hypothetical protein MGC5508	BE261001	Hs.13662	4.1	3818 7746
	408056	ephrin-A4	AA312329	Hs.42331	4.1	188 4930
	430200	geminin	BE613337	Hs.234896	4.1	2658 6777
40	408547	ESTs	AA574291	Hs.57837	4.1	238 4969
	408433	ras-related C3 botulinum toxin substrat	AW162931	Hs.45002	4.1	221 4955
	443837	spindle pole body protein	AI984625	Hs.9884	4.1	3650 7612
	436415	proliferation-associated 2G4, 38kD	BE265254	Hs.343258	4.1	3186 7191
	427087	uncharacterized hypothalamus protein HT		Hs.173515	4.1	2301 6508
45	409596	KIAA0410 gene product	BE244200	Hs.90421	4.1	364 5063
	441955	ESTs	AA972327	Hs.368431	4.1	3543 7515
	445674	transcription factor CA150	BE410347	Hs.13063	4.1	3790 7722
	412620	ESTs	T58171	Hs.12253	4.1	617 5258
	429617	B-cell CLL/lymphoma 7A	X89984	Hs.211563	4.1	2589 2590 6728
50	441742	ESTs, Highly similar to A59266 unconven	H21075	Hs.31802	4.1	3534 7506
	414280	zyxin	BE410769	Hs.75873	4.1	796 5403
	423062	ESTs	NM_003655		4.1	1774 1775 6140
	452092	hypothetical protein FLJ11210	BE245374	Hs.27842	4.1	4285 8128
	413048	mannose receptor, C type 1	M93221	Hs.75182	4.1	672 673 5305
55	450785	Homo sapiens, alpha-1 (VI) collagen	AA852713	Hs.108885	4.1	4193 8056
	419594	topoisomerase (DNA) II binding protein	AA013051	Hs.91417	4.1	1360 5B34
	.450705	iroquois homeobox protein 2A (IRX-2A)	U90304	Hs.25351	4.1	4185 4186 8050
	411078	CocoaCrisp	Al222020	Hs.182364	4.1	512 5172
CO	419452	PTK7 protein tyrosine kinase 7	U33635	Hs.90572	4.1	1340 1341 5821
60	446215	SH3 domain binding glutamic acid-rich p	AW821329	Hs.14368	4.1	3825 7753
	449969	Homo sapiens cDNA FLJ14337 fis, clone	P AW295142	Hs.180187	4.1	4123 8001
	437762	synaptotagmin I	T78028	Hs.154679	4.1	3284 7277
	421931	gamma-aminobutyric acid (GABA) A recep		Hs.1440	4.1	1615 1616 6023
C =	411943	ESTs, Weakly similar to S44608 C02F5.6		Hs.7962	4.1	562 5214
65	410160	ESTs	Al124557	Hs.368306	4.1	427 5111
	448072	ESTs	AI459306	Hs.349096	4.1	3974 7876
	418154	nuclear receptor subfamily 1, group I,	BE165866	Hs.352403	4.1	1197 5714
	409869	GDP dissociation inhibitor 1	BE259015	Hs.74576	4.1	393 5085
70	444759	ESTs	AW105011	Hs.371157	4.1	3721 7671
70	422599	non-metastatic cells 1, protein (NM23A)	BE387202	Hs.118638	4.1	1710 6092
	421753	ATP-binding cassette, sub-family B (MDR		Hs.107911	4.1	1587 5999
	405516	ENSP00000200457*:Thyroid receptor inte			4.1	4785
	454024	hypothetical protein FLJ23403	AA993527	Hs.293907	4.1	4481 8290
75	416959	ubiquitin-conjugating enzyme E2A (RAD6		Hs.80612	4.1	1050 1051 5599
75	452187	transcription factor Dp-2 (E2F dimeriza	AA400200	Hs.379018	4.1	4293 8135
	449568	KIAA1598 protein	AL157479	Hs.23740	4.1	4096 7977
	453173	KIAA0442 protein	AB007902	Hs.32168	4.1	4397 4398 8223
	414702	cell division cycle 34	L22005	Hs.76932	4.1	852 853 5448
90	427857	hypothetical protein FLJ22865	AL133017	Hs.288679	4.1	2377 6566
80	423589	ESTs	AA328082	Hs.361361	4.1	1822 6175
	448186	Homo sapiens cDNA FLJ14208 fis, clone	N AA262105	Hs.4094	4.1	3982 7883
	426269	Homo saplens mRNA; cDNA DKFZp566A	1046 (H15302	2 Hs.168950		2190 6433
	431192	ESTs, Weakly similar to SP62_HUMAN S	PLI AI570056		4.1	2759 6847
85	417164	heterogeneous nuclear ribonucleoprotein		Hs.81361	4.1	1087 5627
55	436639	fibroblast growth factor 9 (glia-activa	D14838	Hs.111	4.1	3207 3208 7209
	434775	ESTs	AA648983	Hs.370514	4.1	3074 7098

	448807	ESTs	AI571940	Hs.7549	4.1	4041 7930	
	442990	hypothetical protein MGC11321	AA197226	Hs.19347	4.1	3592 7560	
	424756	lamin B receptor		Hs.152931	4.0	1997 6296	
=	449458	ESTs	Al805078	Hs.208261	4.0	4089 7971	
5	438203	ESTs		Hs.7345	4.0	3308 7300	
	416737	LIM domain protein	AF154335	Hs.79691	4.0	1028 1029 5582	
	447397	E-1 enzyme	BE247676	Hs.18442	4.0	3923 7833	
	417871 452063	ESTS	AA521368	Hs.24252	4.0	1163 5686	
10	437967	ESTs, Weakly similar to TWST_HUMAN T mel transforming oncogene (derived from		Hs.5947	4.0	4281 8124	•
10	417259	chondroitin sulfate proteoglycan 2 (ver		Hs.81800	4.0	3294 7287	
	421057	Homo sapiens cDNA: FLJ22063 fis, clone	AW903838	Hs.120638	4.0	1092 5632	
	416188	v-myc avian myelocytomatosis viral onco		Hs.79070	4.0 4.0	1501 5940	
	448950	CGI-152 protein	AF288687	Hs.9275	4.0	979 5546 ADED ADE1 7026	-
15	418385	Homo sapiens, clone IMAGE:3357127, m				4050 4051 7936 1225 5734	
10	431431	Human DNA sequence from clone RP3-4				2784 6868	
	423662	B-cell CLL/lymphoma 11A (zinc finger pr		Hs.130881	4.0	1835 1836 6185	
	430287	ESTs, Weakly similar to LEU5_HUMAN L	EUK AW18245	9 Hs.125759	4.0	2676 6790	
	449281	hypothetical protein MGC15668	A1808699	Hs.162717	4.0	4078 7960	
20	441551	ESTs		Hs.296141	4.0	3524 7497	
	438501	phosphoinositol 3-phosphate-binding pro	Z44110	Hs.86149	4.0	3328 7318	
	443262	interleukin enhancer binding factor 3,		Hs.256583	4.0	3613 3614 7580	
	451999	DEAD/H (Asp-Glu-Ala-Asp/His) box polyp		Hs.380623	4.0	4268 8115	
25	424441	H2A histone family, member X	X14850	Hs.147097	4.0	1952 1953 6267	
25	414493	retinoblastoma-binding protein 2		Hs.76272	4.0	826 5427	
	424720	SWI/SNF related, matrix associated, act	M89907	Hs.152292	4.0	1990 1991 6292	
	422326	eukaryotic translation initiation facto	Al114875	Hs.78592	4.0	1672 6064	
	448196	hypothetical protein FLJ10520	BE543313	Hs.77510	4.0	3983 7884	
30	401153 433180	Target Exon	ADD20CE4	Un 24054	4.0	4645	
50	435931	K562 cell-derived leucine-zipper-like p RNA binding motif protein 9	AB038651	Hs.31854	4.0	2949 2950 6997	
	428677	troponin I, cardiac	Al077464 Al657119	Hs.351478	4.0	3163 7171	
	447898	6.2 kd protein		Hs.351582 Hs.380920	4.0 4.0	2462 6634	
	419752	ESTs, Moderately similar to ZN91_HUMA			4.0	3966 7868 1386 5854	
35	413254	isocitrate dehydrogenase 3 (NAD) gamma		Hs.75253	4.0	691 692 5320	
	439490	ESTs, Weakly similar to A46302 PTB-ess			4.0	3401 7384	
-	433808	ART-4 protein	NM_014062		4.0	3005 3006 7041	
	418327	paired-like homeodomain transcription f	U70370	Hs.84136	4.0	1217 1218 5729	
40	416283	vascular endothelial growth factor C	NM_005429		4.0	985 986 5551	
40	432974	ESTs		Hs.233331	4.0	2919 6973	
	426423	single-stranded-DNA-binding protein	NM_012446	Hs.1 69833	4.0	2222 2223 6455	
	435937	ESTs	AA830893	Hs.119769	4.0	3164 7172	
	447082	thioredoxin-like	T85314	Hs.54629	4.0	3889 7806	
45	423896	ESTs *	AA332216	Hs.130584	4.0-	1862 6204	
43	424176	hypothetical protein		Hs.142307	4.0	1909 1910 6237	
	437464	Homo sapiens mRNA; cDNA DKFZp547J				3266 7261	
	427472 437546	transposon-derived Buster3 transposase-		Hs.131250	4.0	2333 6531	
	414682	T-box 1		Hs.173984	4.0	3270 7264	
-50	446566	inhibitor of DNA binding 3, dominant ne membrane-spanning 4-domains, subfamil		Hs.76884 Hs.17914	4.0	844 845 5443	
5,0	413433	transcription factor 4	NM_003199		4.0 4.0	3857 7778 716 717 5336	
	449349	hypothetical protein FLJ21939 similar t	Al825386	Hs.381224	4.0	4083 7965	
	413408	DEAD/H (Asp-Glu-Ala-Asp/His) box polyp	e R51793	Hs.1440	4.0	714 5334	
	413823	ESTs	Al341417	Hs.29406	4.0	747 5362	
55	409995	ESTs	*****		4.0	402 5093	
	435466	G protein beta subunit-like		Hs.29203	4.0	3128 7144	
	409392	ESTs		Hs.59710	4.0	346 5050	
	435557	ESTs, Moderately similar to 154374 gene	AA864704	Hs.67197	4.0	3138 7151	
60	422436	KIAA0756 protein	AB018299	Hs.13349	4.0	1682 1683 6071	
60							
	TABLE CO.						
	TABLE 6B: Pkey:	Unique For emboset identifier aus					
	CAT number:	Unique Eos probeset identifier num Gene cluster number	iber				
65	Accession:	Genbank accession numbers					
03	Accession.	Gendank accession numbers					
	Pkey	CAT Number Accession					
	429163	1238297_1 AW974271 AA592975 AA44	17312 AARR <i>4</i> 7	66			
	411962	2307710_1 AA099050 AA099526 T4773		00			
70	448044	1111791_1 AW867082 AI458682 H242		4537			
	417588	33114_3 R24958 Z44510 T82024 R0					
		_					
	TABLE 6C:						
7.	Pkey:	Unique number corresponding to a	n Eos probese	t			
75	Ref:	Sequence source. The 7 digit num	bers in this col	umn are Genb	ank Identifier	(GI) numbers. "Dunham I. et al." refer	s to the publication entitled
		"The DNA					
	5 4 .	sequence of human chromosome 2	22." Dunham I.	et al., Nature	(1999) 402:48	B9-495.	
	Strand:	Indicates DNA strand from which ex	xons were pred	ticted.			
80	Nt_position:	Indicates nucleotide positions of pr	evicted exons.				
30	Dlea.	Pof Strond Ma	nocilia-				
	Pkey 402994		position 27-4969				
	402994		27-4569 313-58489				
_	401621		3-608				
85	401797		73-7118				
-	403857		24-3408				
	-		•				

	404208	3080468	Minus 1	05346-105573	•				
	404030	7671252		49362-151749					
	401827	2262095		4725-94860,9 <i>[</i>					
	405770	2735037		1057-62075	3432-3000U				
5	406311	9211559		37114-139033					
,	405754	3688349		9448-19610,20					
	400991	8096825		59197-159320					
	402992	7767907		2137-42515	•				
	406137	9166422		0487-31058					
10	405268	4156151		4404-24521					
	406076	9123123		9972-90319					
	403650	8705512		1272-71414					
	404632	9796668		5096-45229					
	405326	4375975		0633-10709,30	J802'30803 30	1070 20252 EE	-		
15	402861	2814366		4933-15231,1		0/0-00200,00	(1		
	405387	6587915		769-3833,5708					
	403668	7259739		9942-40150	-5055				
	402260	3399665		13765-113910	115653_1157	55 1160ND 116	ena .		
	402330	4464283		5325-15380,15			, 54		
20	406534	7711477		0463-40586,41			nn		
	404420	7407952		29817-130586		000-1000,40	00		
	402233	7690102		0281-91477					
	405516	9454624		12707-112876	113676-1138	5.4			
	401153	9438289		0582-30801	, , , , , , , , , , , , , , , , , , , ,				
25			•						
	TABLE 7A		• • •						
20	Pkey:	Unique Eos prob	eset identifier number						
30	Gene name:								
	Accession:	Exemplar Access	sion number, Genbank a	eccession num	ber				
	UniGene:	Unigene number				•			
	RATIO:	95th percentile of	f soft lissue sarcoma Als	s divided by the	e 50th percent	ile of normal ti	ssue Als, where the	10th percentile of normal tissue	Als was
35	subtracted for			the numerate	or and denomi	nator			
33	SEQID#:	uncierc acid and	protein sequences provi	ded on CD for	search purpos	ses .			
	Pkey	Gene Name	·	Assessed	11-10	DATIO			
	413778	muccin light not	peptide 2, regulatory	Accession	UniGene	RATIO	SEQ ID#		
	428087	troponin C2, fast	rpepulae z, regulatory	AA090235	Hs.75535	45.0	740 5356		
40	407245	titin		AA100573	Hs.182421	42.8	2396 6582		
10	425545		lone MGC:12401, mRN/	X90568	Hs.172004	42.7	132 133 4881		
	426752	titin	ione moo. 12401, man	X69490	Hs.158295	34.0	2114 6379		
	409601		molytic hyperkeratosis	AF237621	Hs.172004	34.0	2266 2267 6482		
	412519	troponin T1, skel		AA196241	Hs.80828 Hs.73980	32.2	365 366 5064	_	
45	406704		olypeptide 7, cardiac mu		Hs.929	31.6	598 5244 FF FF 4930	_	
	409169	(clone PWHI C2.	24) myosin light chain 2	F00001	Hs.50889	29.8 29.3	55 56 4826		
	428221		sporting, cardiac muscle		Hs.183075	29.3 28.0	316 5029		
	400440	nebulin	sporting, certifico intescio	X83957	Hs.83870	26.0	2408 2409 6592 24 25 4627		
	422633	enolase 3, (beta,	muscle)	X56832	Hs.118804	25.7		•	
50	407013		in mRNA, partial cds	U35637	Hs.83870	25.7 25.5	1716 1717 6098 94 95 4851		
	422867		ric matrix protein (ps	L32137	Hs.1584	25.1	1751 1752 6122		
	406706		olypeptide 1, skeletal m		Hs.231581	24.8	59 60 4828		
	417070	titin	.,,-,	Z19077	Hs.172004	24.6	1070 5614		
	424687	matrix metallopro	teinase 9 (gelatinase	J05070	Hs.151738	23.6	1986 1987 6289		
`55	426300	delta-like homolo	g (Drosophila)	U15979	Hs.169228	22.3	2196 2197 6437	•	
	406707	myosin, heavy po	olypeptide 2, skeletal m	S73840	Hs.931	22.2	61 62 4829		
	412129	troponin T3, skele	etal, fast	M21984	Hs.73454	22.1	571 572 5222		
	431204	cytochrome c oxi	dase subunit Via polype	F28841	Hs.250760	21.4	2760 6848		
C O	422640	troponin C, slow		M37984	Hs.118845	21.0	1718 1719 6099		
60	421296	perilipin		NM_002666	Hs.1 03253	20.3	1525 1526 5961		
	416931		indant gene transcript 1		Hs.80485	19.9	1047 1048 5597		
	418205	troponin I, skeleta		L21715	Hs.83760	19.5	1204 1205 5720		
	405001		cer binding factor 1			19.4	4767		
65	441134		cid-binding protein	W29092	Hs.346950	19.4	3500 7475		
05	410621	tilin EOT-		AA194329	Hs.172004	19.3	481 5149		
	421773	ESTs		W69233	Hs.112457	18.7	1588 6000		
	420139 417153	lipase, hormone-s		NM_005357		18.4	1419 1420 5881		
	422069	titin-cap (telethon	alpha 1 (primary ost	X57010	Hs.81343	17.9	1084 1085 5625		
70	417435		se III, muscle specific	AJ010063 NM_005181	Hs.343603	17.9	1635 1636 6037		
, ,	427899	serum amyloid A		AA829286	Hs.336462	17.2	1121 1122 5655		
	452838		ressed antigen in mel	U65011	Hs.30743	17.1 16.9	2384 6571 4357 4358 8188		
	410223		ast-twitch, skeletal	S73775	Hs.60708	16.8	433 434 5115		
	408591	mammaglobin 1	ant timatify ortoida	AF015224	Hs.46452	16.6	241 242 4972		
75	446523	sarcolipin		NM_003063		16.4	3852 3853 7774		
	418533		rotein C, fast-type	NM_004533		16.3	1253 1254 5764		
	420197		nilar to A57291 cytokine		Hs.88134	16.1	1429 5889		
	416373		nilar to S12658 cysteine		Hs.73680	16.1	996 5559		
00	404977	Insulin-like growth	factor 2 (somatomed	•=		16.0	4766		
80	424688		peptide 3. alkali; ve	AA216287	Hs.1815	16.0	1988 6290		
	431205	tropomodulin 4 (n		AA194560	Hs.250763	15.8	2761 6849		
	418391	troponin i, skeleta		NM_003281		15.5	1228 1229 5736		
	409096	sarcomeric muscl		AA194412	Hs.50550	15.2	302 5019		
85	403088		no sepiens titin (TTN), n			15.1	4707		
رن	424982 447205		lycogen; muscle (McArd		Hs.351580	15.1	2036 2037 6325		
	447205	CO15, WOOderately	similar to T17372 plas	8 と61/015	Hs.11006	14.9	3900 7816		

	44 0200	I'm turning alabutin demain protein (my	AE122020	Hs.84665	140	4000 4007 5705
	418390 421566	titin immunoglobulin domain protein (my early growth response 2 (Krox-20 (Droso			14.8 14.7	1226 1227 5735
	421300	FGENES predicted novel secreted protein		ns.1 333	14.7	1563 1564 5984 87 88 4847
	429359	matrix metalloproteinase 14 (membrane-i		Hs.2399	14.5	2551 6702
5	419138	ryanodine receptor 1 (skeletal)	U48508	Hs.89631	13.9	1309 1310 5796
•	431360	loricrin		Hs.2 51680	13.9	2776 2777 6861
	419648	thyroid hormone responsive SPOT14 (rat)		Hs.91877	13.8	1366 5839
	427666	calmodulin-like skin protein (CLSP)	Al791495	Hs.180142	13.7	2356 6550
4.0	431089	ESTs, Weakly similar to unknown protein		Hs.374629	13.7	2745 6838
10	426429	myosin-binding protein C, slow-type	X73114	Hs.169849	13.6	2224 2225 6456
	439496	Homo sapiens, Similar to RIKEN cDNA 11		Hs.32343	13.5	3402 7385
	408493	phosphoglycerate mutase 2 (muscle)	BE206854	Hs.46039	13.4	231 4962
	420783	lectin, galactoside-binding, soluble, 7 C10001858:gi[6679124]ref[NP_032759.1]	_A1659838	Hs.99923	13.3 13.3	1478 5924 4628
15	400499 407102	glycerol-3-phosphate dehydrogenase 1 (s	AA007629	Hs.348601	13.2	109 4861
13	422424	prostate differentiation factor	Al186431	Hs.296638	13.2	1681 6070
	424399	AI905687:IL-BT095-190199-019 BT095 H			12.9	1942 6259
	417389	midkine (neurite growth-promoting facto	BE260964	Hs.82045	12.8	1109 5647
	430411	bone gamma-carboxyglutamate (gla) prote		Hs.2558	12.7	2691 2692 6800
20	437206	ESTs, Weakly similar to 138344 titin, c	AW975934	Hs.172004	12.6	3245 7242
	434352	small muscle protein, X-linked	AF129505	Hs.86492	12.6	3047 3048 7075
	430681	ESTs	AW969675	Hs.291232	12.5	2719 6819
	453857	Res-Induced senescence 1 (RIS1)	AL080235	Hs.35861	12.5	4449 4450 8266
25	445263	KIAA1560 protein	H57646	Hs.42586	12.4	3755 7697
25	429973	ESTs	AJ423317	Hs.164680	12.4	2628 6756
	406687	matrix metalloproteinase 11 (stromelysi	M31126	Hs.352054	12.3	49 50 4823
	414152	thrombospondin 4	NM_003248		12.2 12.2	782 783 5391 3861 7782
	446619	secreted phosphoprotein 1 (osteopontin, apolipoprotein B mRNA editing enzyme, o	AU076643	Hs.313	12,2	2636 2637 6761
30	429997 403593	Target Exon	: IVM_000103	NS.Z 21401	12.1	4725
50	444381	hypothetical protein BC014245	BE387335	Hs.283713	12.1	3697 7652
	419050	adenosine monophosphate deaminase 1			12.1	1293 1294 5784
	416378	ankyrin repeat domain 2 (stretch respon	AW044467	Hs.73708	12.1	997 5560
	427809	tipoprotein lipase	M26380	Hs.180878	12.0	2373 6562
35	450701	hypothetical protein XP_098151 (leucine		Hs.288467	11.7	4183 8048
	408915	heptacellular carcinoma novel gene-3 pr	NM_016651		11.6	274 275 4998
	453331	ESTs	A1240665	Hs.352537	11.6	4413 8236
	436519	myozenin	AJ278124	Hs.238756	11.5	3196 3197 7200
40	418072	Human DNA sequence from clone RP3-3	53C1 F35210	Hs.86507	11.5	1190 5707
40	443727	ESTs	Z25389	Hs.18459	11.4	3640 7603
	417866	collagen, type XI, alpha 1	AW067903	Hs.82772	11.3	1162 5685
	446921	small inducible cytokine subfamily A (C	AB012113	Hs.16530	11.3	3878 3879 7797
	408536	ESTs	AW381532	Hs.135188	11.1	236 4967
45	411102	triadin	AA401295	Hs.2392 6	11.1	515 5175
43	416349	myomesin (M-protein) 2 (165kD)	X69089 AF131781	Hs.79227	11.1 10.9	991 992 5556 1232 1233 5738
	418399 444329	hypothetical protein FLJ12442 hypothetical protein FLJ12921	W73753	Hs.84753 Hs.209637	10.8	3693 7648
	443514	ESTs	BE464288	Hs.25475	10.8	3624 7588
	416559	ESTs	AI039195	Hs.128060	10.8	1012 5571
50	419875	proenkephalin	AA853410	Hs.93557	10.7	1391 5859
-	429259	Plakophilin	AA420450	Hs.380088	10.7	2535 6689
	417308	KIAA0101 gene product	H60720	Hs.81892	10.7	1094 5634
	409944	four and a half LIM domains 3	BE297925	Hs.57687	10.7	399 5090
	400651	ENSP00000228031*:COPPER CHAPER	ONE FOR S		10.7	4636
55	428769	ESTs	AW207175	Hs.106771	10.6	2470 6640
	418678	cancer/testis antigen (NY-ESO-1)	NM_001327		10.5	1269 1270 5765
	450787	aquaporin 7	AB006190	Hs.25475	10.4	4194 4195 8057
	418054	lysyl oxidase-like 2	NM_002318	Hs.8 3354	10.4	1184 1185 5702
60	401781	Target Exon	Y00762	Ne open	10.4 10.3	4662
00	428405	cholinergic receptor, nicotinic, alpha kallikrein 5	BE393948	Hs.2266 Hs.50915	10.3	2436 2437 6615 319 5032
	409178 410687	lysyl oxidase-like 1	U24389	Hs.65436	10.3	485 486 5153
	425292	37 kDa leucine-rich repeat (LRR) protei		Hs.1 55545	10.2	2083 2084 6359
	413011	biglycan	AW068115	Hs.821	10.1	669 5302
65	427335	G antigen 7B	AA448542	Hs.278444	10.1	2317 6520
	422887	ESTs	Al751848	Hs.49215	10.1	1755 6124
	432874	melanoma inhibitory activity	. W94322	Hs.279651	10.0	2913 6968
	419741	ubiquitin carrier protein E2-C	NM_007019	Hs.9 3002	10.0	1379 1380 5850
	418004	aldehyde dehydrogenase 3 family, memb		Hs.87539	9.9	1174 1175 5695
70	419301	tenomodulin protein	AA236166	Hs.132957	9.9	1328 5811
	442117	ESTs; hypothetical protein for IMAGE:44		Hs.128899	9.9	3551 7523
	422060	ESTs, Moderately similar to ALU5_HUM		Hs.325823	9.9	1633 6035
	437330	Homo sapiens mRNA; cDNA DKFZp761.				3253 7250
75	417515	ataxla-telanglectasla group D-associate	L24203 AA227710	Hs.82237	9.9	1129 1130 5659
15	. 408202 428471	OKFZP586L151 protein stratifin	X57348	Hs.43658 Hs.184510	9.9 9.9	202 4942 2445 2446 6622
	411021	straum titin	F00055	Hs.172004	9.9 9.8	508 5169
	428848	leptin (murine obesity homolog)		Hs.1 94236	9.8	2481 2482 6649
	421512	myomegalin	AB007923	Hs.265848	9.8	1554 1555 5979
80	456115	ülin	F01082	Hs.172004	9.8	4515 8320
	446962	muscle specific ring finger protein 1	Al351421	Hs.279709	9.7	3884 7801
	417405	ESTs	W28657	Hs.5307	9.7	1112 5649
	426600	VGF nerve growth factor inducible	NM_003378	Hs.1 71014	9.6	2255 2256 6475
0.7	450375	a disintegrin and metalloproteinase dom		Hs.352537	9.6	4159 8028
85	420067	Homo sapiens mRNA; cDNA DKFZp564			9.6	1414 5876
	421823	ESTs	N40850	Hs.28625	9.6	1600 6011

	431211	gap junction protein, beta 2, 26kD (con	M86849	Hs.323733	9.6	2762 2763 6850
	431830	small inducible cytokine subfamily A (C	Y16645	Hs.271387	9.4	2827 2828 6900
•	423961	periostin (OSF-2os)	D13666	Hs.136348	9.4	1878 1879 6215
_	409028	Z-band alternatively spliced PDZ-motif	AB014513	Hs.49998	9.4	296 297 5015
5	421552	secreted frizzled-related protein 4	AF026692	Hs.105700	9.4	1559 1560 5982
	429892	myomesin 1 (skelemin) (185kD)	NM_003803		9.4	2614 2615 6745
	429500	hexabrachion (tenascin C, cytotactin)	X78565	Hs.289114	9.4	2574 2575 6718
	416982	creatine kinase, mitochondrial 2 (sarco	· J05401	Hs.80691	9.3	1055 1056 5602
10	418156	nuclear receptor subfamily 1, group 1,	W17056	Hs.83623	9.3	1198 5715
10	434449	hypothetical protein FLJ22041 similar t	AW953484	Hs.3849	9.3	3057 7083
	435370	EST ₈	Al964074	Hs.225838	9.2	3120 7136
	420208	silver (mouse homolog) like	BE276055	Hs.95972	9.2	1431 5891
	422871_	collagen, type XI, alpha 2	AL031228	Hs.121509	9.2	1753 1754 6123
15	401780	NM_005557*:Homo sapiens keratin 16 (fo			9.1	4661
13	438089	nuclear receptor subfamily 1, group 1,	W05391	Hs.351546	9.1	3301 7294
	422311	cytokine receptor-like factor 1	AF073515	Hs.114948	9.0	1669 1670 6062
	429134	ESTs	AA446953	Hs.99004	9.0	2514 6673
	445234	ESTs	AW137636	Hs.146059	9.0	3751 7694
20	427639	Homo sapiens, clone MGC:18257, mRNA				2353 6547
20	428748	Ksp37 protein	AW593206	Hs.98785	8.9	2468 6638
	412560	CCR4-NOT transcription complex, subuni		Hs.350495	8.9	602 5248
	418140	microfibrillar-associated protein 2	BE613836	Hs.83551	8.9	1196 5713
	428698	KIAA1866 protein	AA852773	Hs.334838	B.9	2463 6635
25	411789	Adlican	AF245505	Hs.72157	8.9	553 554 5207
23	434326	reticulon 2	NM_005619		8.9	3043 3044 7073
	420798	keratin 10 (epidermolytic hyperkeratosi	W93774	Hs.99936	8.9	1479 5925
	430713	eukaryotic translation elongation facto	AA351647	Hs.2642	8.8	2726 6824
	451681	ESTs, Weakly similar to AA64_HUMAN 6		Hs.255950	8.8	4245 8097
30	424408 428305	collagen, type V, alpha 1	AJ754813	Hs.146428	8.8	1943 6260
30	426305 414482	cartilage linking protein 1	AA446628	Hs.2799	8.7	2426 6607
		endothelin receptor type A	S57498	Hs.76252	8.7	824 825 5426
	428957 ' 412472	WNT1 inducible signaling pathway proteil ESTs		Hs.1 94679	8.7	2491 2492 6656
	410001		AW975398	Hs.293836	8.7	593 5240
35	428398	kalikrein 11	AB041036	Hs.57771	8.7	403 404 5094
55		ESTs	AI249368	Hs.98558	8.7	2435 6614
	418113 428289	SRY (sex determining region Y)-box 4	A1272141	Hs.83484	8.7	1194 5711
	411296	complement component 2	M26301	Hs.2253	8.7	2421 2422 6603
	438091	growth suppressor 1	BE207307	Hs.10114	8.7	524 5183
40	436555	nuclear receptor subfamily 1, group 1,	AW373062	Hs.351546	8.6	3302 7295
70	410079	ESTs, Weakly similar to 2003319A ankyri		Hs.304646	8.6	3200 7202
	419550	glycogenin 2 KIAA0128 protein; septin 2	U94362	Hs.380757	8.6	418 419 5104
	452023	KIAA1173 protein	D50918 AB032999	Hs.90998	8.6 8.6	1348 1349 5827
	415989	ESTs -	Al267700	Hs.27566		4271 4272 8118
45	424086	lysyl oxidase	Al351010	Hs.351201 Hs.102267	8.6 8.5	962 5530 1896 6227
	422511	collagen, type XVII, alpha 1	AU076442	Hs.117938	8.5	1692 6078
	412326	small inducible cytokine A3 (homologous		Hs.73817	8.5 .	582 5231
	416783	monocyte to macrophage differentiation-		Hs.79889	8.5	1031 5584
	413554	secretogranin II (chromogranin C)	AA319146	Hs.75426	8.5	729 5346
50	407112	ESTs, Weakly similar to ALU7_HUMAN A			8.5	111 4863
	418064	S100 calcium-binding protein, beta (neu	BE387287	Hs.83384	8.5	1188 5705
	406673	major histocompatibility complex, class	M34996	Hs.198253	8.5	90 91 4821
	416658	fibrillin 2 (congenital contractural ar	U03272	Hs.79432	8.5	1020 1021 5577
	435101	ESTs	Al743156	Hs:131064	8.5	3106 7124
55	424800	MyoD family Inhibitor	AL035588	Hs.153203	8.4	2002 2003 6300
	420103	aldehyde dehydrogenase 1 family, memb		Hs.95197	8.4	1416 5878
	414219	ALL1-fused gene from chromosome 1q	W20010	Hs.75823	8.3	789 5397
	420813	prolactin-induced protein	X51501	Hs.99949	8.3	1482 1483 5927
~ ^	423044	protocadherin 18	AA320829	Hs.97266	8.3	1772 6138
60	418026	falty acid binding protein 4, adipocyte	BE379727	Hs.B3213	8.3	1179 5698
	433430	ESTs	Al863735	Hs.369982	8.3	2977 7018
	409633	ESTs	AW449822	Hs.55200	8.3	371 5068
	443426	chromosome 20 open reading frame 1	AF098158	Hs.9329	8.3	3621 3622 7586
65	445537	EGF-like-domain, multiple 6	AJ245671	Hs.12844	8.2	3780 3781 7716
05	411852	ESTs, Wealdy similar to T00329 hypothet		Hs.107515	8.2	555 5208
	445016	reelin	U79716	Hs.12246	8.2	3738 3739 7684
•	415672	ESTs	N53097	Hs.193579	8.2	937 5511
	408349	homeo box C10	BE546947	Hs.44276	8.1	213 4949
70	456063 422087	retinol-binding protein 4, interstitial	NM_006744		8.1	4511 4512 8317
70	423778	matrix metalloproteinase 2 (gelatinase flavin containing monooxygenase 2	X58968	Hs.111301	8.1	1641 6040
	413902	CD36 antigen (collagen type I receptor,	Y09267	Hs.132821	8.1	1846 1847 6193
	449722	cyclin B1	AU076743	Hs.75613	8.1	752 5366
	423024	ESTs, Moderately similar to ALU5_HUMA	BE280074	Hs.23960	8.1 8.1	4112 7990 1770 6136
75	449048	similar to S68401 (cattle) glucose indu	Z45051			
. •	421690	calbindin 2, (29kD, calretinin)	AW162667	Hs.22920	8.1 8.0	4061 7945 1580 5994
	409103	XAGE-1 protein	AF251237	Hs.106857 Hs.112208	8.0	1580 5994
	426991	Homo sapiens cDNA FLJ10674 fis, clone		Hs.214410	8.0 8.0	304 305 5021 2294 6502
	457869	Homo sapiens, alpha-1 (VI) collagen	AU077186	Hs.108885	8.0	4561 8359
80	450300	ESTs, Highly similar to ITH4_HUMAN INT		Hs.58210	8.0	4154 8024
-	452862	ADAMTS2 (a disintegrin-like and metall		Hs.8687	8.0	4360 8190
	403071	NM_003319*:Homo sapiens titin (TTN), rr			8.0	4702
	412719	ESTs	AW016610	Hs.816	8.0	633 5270
0.~	447377	transcription factor AP-2 alpha	X77343	Hs.334334	7.9	3920 3921 7831
85	430686	desmoglein 1	NM_001942		7.9	2721 2722 6821
	425397	topoisomerase (DNA) II alpha (170kD)	J04088	Hs.156346	7.9	2099 2100 6369
		•				· · · · · ·

						4000 0470
	452620				7.9 7.9	4338 8172 1820 6173
	423575	Billion of bonocon (7. 9 7.9	4442 8260
	453817 442082	20.5	R41823		7.8	3550 7522
5	442376	Homo sapiens cDNA FLJ12228 fis, clone M			7.8	3557 7529
,	423739	ESTs /	A398155		7.8	1842 6190
	440042	ESTs /	A)073387		7.8	3448 7430
	435523	membrane-spanning 4-domains, subfamily	T62849		7.8	3131 7147
10	431048		R50253		7.8 7.8	2742 6835 370 5067
10	409632	Setura for exercise by	N74001 AA828347		7.8	1148 5673
	417689 422148	Tar o to to be pro	M60052	Hs.1480	7.7	1651 1652 6048
	433447	neuronal pentraxin II	U29195	Hs.3281	7.7	2980 2981 7021
	423201	growth hormone receptor	NM_000163	Hs.1 25180	7.7	1782 1783 6146
15	443071	complement component 1, q subcomponer	it, AL080021	Hs.8986	7.7	3598 7566
	425071	deiodinase, lodothyronine, type II	NM_013989	Hs.1 54424	7.7	2043 2044 6330
	419407	11) poulousus protein r === = =	AW410377	Hs.41502	7.7	1334 5817 1432 1433 5892
	420212		NM_000069 AW445181	Hs.209637	7.6 7.6	3418 7401
20	439688 445033		AV652402	Hs.72901	7.6	3740 7685
20	454140	ojomi ooponoonia	AB040888	Hs.41793	7.6	4493 4494 8301
	414443	platelet-derived growth factor receptor	AU077268	Hs.76144	7.5	817 5421
	415702	gb:HSPD18414 HM3 Homo saplens cDNA	clon F28877	Hs.73680	7.5	942 5515
a.c.	421335		X99977	Hs.103505	7.5	1529 1530 5964
25	417333	bromodomain and PHD finger containing,	AL15/545 AW748482	Hs.173179	7.5 7.5	1096 5636 3430 7413
	439755	Di nonolog c	AW191962	Hs.77873 Hs.353001	7.5	145 4891
	407604 412140		AA219691	Hs.73625	7.5	573 5223
	412473		F23393	Hs.153060	7.5	594 5241
30	414386	haptoglobin	X00442	Hs.75990	7.5	810 811 5415
-	424734	ESTs	A)217685	Hs.96844	7.5	1992 6293
	409327	actuation to be and externed	L41162	Hs.53563	7.5	341 342 5047
	413566	sprouty (Drosophila) hornolog 4	AW604451	Hs.381153	7.5	730 5347
25	420202	putative lymphocyte G0/G1 switch gene	AL036557	Hs.95910 Hs.77424	7.5 7.5	1430 5890 876 877 5465
35	414821	Fc fragment of IgG, high affinity la, r	M63835 Al972919	Hs.118837	7.5	1183 5701
	418045 417849	ESTs nidogen 2	AW291587	Hs.82733	7.4	1161 5684
	444301	asporin (LRR class 1)	AK000136	Hs.10760	7.4	3691 3692 7647
	422627	transforming growth factor, beta-induce	BE336857	Hs.118787	7.4	1715 6097
40	406664	glycerol-3-phosphate dehydrogenase 1 (s		Hs.348601	7.4	83 84 4819
	417900	CDC20 (cell division cycle 20, S. cerev	BE250127	Hs.82906	7.4	1165 5688
	415655	ESTS	W05433 ·	Hs.352293	7.4 7.4	932 5506 4704
	403081	NM_003319*:Homo sapiens titin (TTN), π Homo sapiens ORF1	F01180	Hs.332030	7.4	1066 5610
45	417045 414002	FBJ murine osteosarcoma viral oncogene			7.4	763 764 5375
73	413132	protein kinase (cAMP-dependent, catalyt	NM_006823	Hs.7 5209	7.3	683 684 5314
	453392	SRY (sex determining region Y)-box 11	U23752	Hs.32964	7.3	4416 4417 8239
	438746	Human melanoma-associated antigen p9		Hs.184727	7.3	3353 7337
~ 0	407228	hemoglobin, beta	M25079	Hs.155376	7.3	124 125 4876 312 313 5027
50	409142	SMC4 (structural maintenance of chromo	SALIJOBII	Hs.50758 Hs.1 04576	7.3 7.3	1543 1544 5972
	421458	carbohydrate (keratan sulfate Gal-6) su ESTs, Weakly similar to S38383 SEB4B		Hs.201619	7.3	505 5167
	411000 425234	ESTs, Weakly similar to 138022 hypothel	AW152225	Hs.165909	7,3	2070 6349
	422168	S100 calcium-binding protein A7 (psoria	AA586894	Hs.112408	7.3	1654 6050
55	433122	ESTs	AB019391	Hs.58049	7.3	2941 6991
	414085	aldehyde dehydrogenase 1 family, memb	er AA114016	Hs.75746	7.3	775 5384
	420376	protocadherin 18	AL137471	Hs.97266	7.3 7.3	1447 1448 5903 3593 7561
	443021	ig superfamily protein Al905687:IL-BT095-190199-019 BT095 i	AA368546	Hs.8904	7.3	6 4617
60	400295 457411	iroguols-class homeobox protein IRX2	AW085961	Hs.130093	7.3	4549 8349
00	439285	hypothetical protein FLJ20093	AL133916	Hs.47860	7.3	3389 7372
	428981	ESTs, Weakly similar to ALU2_HUMAN	ALU BE3130	77 Hs.93135	7.2	2497 6660
	421155	lysyl oxidase	H87879	Hs.102267	7.2	1512 5950
<i>(</i>	431553	cartilage linking protein 1	X78075	Hs.2799	7.2	2792 6874 786 5394
65	414175	hypothetical protein DKFZp761D112	AI308876 AB024536	Hs.103849 Hs.102171	7,2 7,2	1510 1511 5949
	421143 407619	Immunoglobulin superfamily containing I collagen, type IX, alpha 2	AL050341	Hs.37165	7.2	146 147 4892
	412978	homeo box C6	AI431708	Hs.820	7.2	665 5298
	428824	ESTs	W23624	Hs.173059	7.2	2477 6645
70	422048	spondin 2, extracellular matrix protein	NM_01244	5 Hs.2 88126	7.2	1631 1632 6034
	407788	S100 calcium-binding protein A2	BE514982	Hs.38991	7.2	161 4905
	447499	protocadherin beta 16	AW262580		7.2	3934 7842 1107 5645
	417376	LIM protein (similar to rat protein kin gb:an03c03.x1 Stratagene schizo brain !	AA253314 S AI204995	Hs.154103	7.2 7.2	4596 8393
75	459702 407172	gb:ya92c05.s1 Stratagene placenta (937	72 T54095	Hs.379019	7.2	117 4869
, 5	452701	glutamine-fructose-6-phosphate transam	NM_00511		7.1	4345 4346 8178
	426509	pentaxin-related gene, rapidly induced	M31166	Hs.2050	7.1	2243 2244 6468
	401203	Target Exon			7.1	4647
00	438549	trinucleotide repeat containing 3	BE386801	Hs.21858	7.1	3331 7320
80	437898	ESTs Homo sapiens clone TUA8 Crl-du-chat r	W81260	Hs.43410 Hs.49476	7,1 7,1	3293 7286 289 5009
	408988 430699	ESTs, Weakly similar to RET2_HUMAN				2723 6822
	452683	progesterone membrane binding protein		Hs.374574		4341 8175
	425682	ribosomal protein L3-like	NM_00506	61 Hs.1 59191	7.1	2122 2123 6385
85	409361	sine oculis homeobox (Drosophila) hom			7.1	344 345 5049
	439979	hypothetical protein FLJ10430	AW60029	1 Hs.6823	7.1	3442 7424

						0054 0040
	432191	tiy pour out out in a serie to the series.	AA043193		7.0	2851 6916
	450098	hypothetical protein FLJ21080	W27249	Hs.8109	7.0 7.0	4134 8009 1381 1382 5851
	419745 433001	slug (chicken homolog), zinc finger pro	AF042001 AF217513	Hs.93005 Hs.279905	7.0	2923 2924 6977
5	437395	clone HQ0310 PRO0310p1 hypothetical protein DKFZp762M136	AL365408	Hs.351747	7.0	3258 3259 7254
,	449969	Homo sapiens cDNA FLJ14337 fis, clone			7.0	4123 8001
	450447	hypothetical protein P15-2	AF212223	Hs.25010	7.0	4168 4169 8036
	412104	Homo sapiens, Similar to RIKEN cDNA 22	H AW205197	Hs.240951	7.0	569 5220
	425154	collagen, type IX, alpha 1	NM_001851	Hs.1 54850	7.0	2055 2056 6339
10	421579	stem cell growth factor; lymphocyte sec	NM_002975		7.0	1567 1568 5987
	414359	cadherin 11, type 2, OB-cadherin (osteo	M62194	Hs.75929	7.0	808 5413
	418532	neurotrophic tyrosine kinase, receptor,	F00797	Hs.374321	7.0	1252 5753 3766 7705
	445417	a disintegrin-like and metalloprotease	AK001058	Hs.12680 Hs.74076	6.9 6.9	608 609 5252
15	41 <i>2577</i> 432239	CD163 antigen	Z22968 X81334	Hs.2936	6.9	2856 2857 6921
13	432239	matrix metalloproteinase 13 (collagenas Homo sapiens mRNA; cDNA DKFZp4346				292 5012
	452392	comeodesmosin	L20815	Hs.507	6.9	4323 4324 8160
	437275	ESTs, Weakly similar to A47582 B-cell g		Hs.292396	6.9	3251 7248
	414831	protein kinase, cAMP-dependent, regulat		Hs.77439	6.9	878 879 5466
20	419631	popeye protein 3	AW188117	Hs.356642	6.9	1365 5838
	447033	Predicted gene: Eos cloned; secreted w/	Al357412	Hs.157601	6.9	3885 7802
	416431	titin	AW384459	Hs.172004	6.9	1003 5565
	426369	Kreisler (mouse) maf-related leucine zi	AF134157 Z49878	Hs.169487 Hs.81131	6.9 6.9	2213 2214 6448 1071 1072 5615
25	417074	guanidinoacetate N-methyltransferase	NM_000909		6.9	2199 2200 6439
23	426310 439751	neuropeptide Y receptor Y1 Homo sapians mRNA full length insert cD		Hs.50794	6.9	3428 7411
	429441	lipophilin B (uteroglobin family member	AJ224172	Hs.204096	6.9	2560 2561 6708
	437191	serine protease inhibitor, Kazal type,	NM_006846		6.9	3241 3242 7239
	417079	Interleukin 1 receptor antagonist	U65590	Hs.81134	6.9	1073 1074 5616
30	400419	Target	AF084545		6.8	22 23 4626
	414812	monokine induced by gamma interferon	X72755	Hs.77367	6.8	874 875 5464
	415657	ESTs	F32261	Hs.133004	6.8	934 5508
	409041	Hypothetical protein, XP_051860 (KIAA1		Hs.50081	6.8	299 300 5017
25	427747	serine/threonine kinase 12	AW411425	Hs.180655	6.B	2365 6557 . 3563 7535
35	442432	hypothetical protein FLJ23468	BE093589 NM_002469	Hs.38178	6.8 · 6.8	4451 4452 8267
	453859	myogenic factor 6 (herculin)	AI085846	Hs.25522	6.8	151 4896
	407711 450506	KIAA1808 protein fibroblast activation protein, alpha	NM_004460		6.8	4170 4171 8037
	421307	Homo sapiens mRNA; cDNA DKFZp434l				1528 5963
40	433235	contactin 3 (plasmacytoma associated)	AB040929	Hs.35089	6.8	2963 2964 7006
	452401	tumor necrosis factor, alpha-induced pr	NM_007115		6.8	4325 4326 8161
	449238	muscle-specific RING-finger protein 3	AA428229	Hs.331561	6.8	4075 7957
	449717	cerebral cell adhesion molecule	AB040935	Hs.23954	6.8	4110 4111 7989
4.~	428722	tissue inhibitor of metalloproteinase 4	U76456	Hs.190787	6.8	2464 2465 6636
45	418506	Unknown protein for MGC:29643 (former		Hs.372651	6.8	1247 5748
	451497	Whit inhibitory factor-1	H83294	Hs.284122	6.8	4235 8089
	410929	ESTs	H47233 AW970937	Hs.30643 Hs.293843	6.8 6.8	504 5166 1271 5766
	418728 451917	ESTs Homo sapiens unknown mRNA	AW391351	Hs.50820	6.8	4261 8108
50	450390	Human DNA sequence from clone RP11				4163 8031
50	452363	Homo saplens, Similar to complement of		Hs.94953	6.7	4322 8159
	448719	trinucleotide repeat containing 3	AA033627	Hs.21858	6.7	4028 7920
	408486	sodium channel, voltage-gated, type IV,	L04236	Hs.46038	6.7	228 229 4960
	412755	ESTs, Weakly similar to P4HA_HUMAN	PROL BE144	306 Hs.17989	1 6.7	637 5274
55	417944	collagen, type V, alpha 2	AU077196	Hs.82985	6.7	1172 5693
	422386	heparan sulfate (glucosamine) 3-0-sulfo	AF105374	Hs.115830	6.7 6.7	1676 1677 6067 933 5507
	415656	ESTs ESTs, Weakly similar to ALU2_HUMAN	W84346	Hs.84673	6.7	1907 6235
	424162 403087	NM_003319*:Homo saplens titin (TTN),		25 (15,50150	6.7	4706
60	424420	prostaglandin E synthase	BE614743	Hs.146688	6.7	1949 6264
55	408204	protein tyrosine phosphatase type IVA,	AA454501	Hs.43666	6.7	203 4943
	407792	putative secreted ligand homologous to	Al077715	Hs.39384	6.7	162 4906
	425247	matrix metalloproteinase 11 (stromelysi		D Hs.1 55324	6.7	2072 2073 6351
~ ~	406837	immunoglobulin kappa constant	R70292	Hs.156110	6.7	69 4836
65	448520	doublecortin and CaM kinase-like 1	AB002367	Hs.21355	6.7	4010 4011 7907
	409698	short stature homeobox 2	AF022654	Hs.55967	6.7 6.7	378 379 5074 3008 7043
	433839	ESTs, Weakly similar to ALU1_HUMAN	ALU 135450 AL117542	Hs.146070 Hs.334305	6.7	3247 7244
	437220 414716	GS1999full Kv channel-interacting protein 2	AF199598	Hs.97044	6.6	856 857 5451
70	422667	ESTs	H25642	Hs.132821	6.6	1723 6102
, 0	433138	semaphorin sem2	AB029496	Hs.59729	6.6	2944 2945 6994
	407824	Homo sapiens cDNA FLJ14388 fis, clon			6.6	166 4910
	442573	branched chain aminotransferase 1, cyt	D H93366	Hs.7567	6.6	3570 7541
~-	411396	ESTs	C04646	Hs.85428	6.6	533 5191
75	406519	C10001858:gi 6679124 ref NP_032759.		11- 00004	6.6	4808
	410361	guanylate binding protein 1, interferon	BE391804	Hs.62661	6.6	456 5132 3816 7744
	446051	ephrin-A3	- BE048061	Hs.37054	6.6 6.6	3816 7744 4302 8142
	452223	hypothetical protein MGC2827 cell adhesion molecule with homology to	AA425467 AF002246	Hs.8035 Hs.210863	6.6	2584 2585 6725
80	429609 431183	KDEL (Lys-Asp-Glu-Leu) endoplasmic r	eli NM OOSSS		6.6	2756 2757 6845
UV	431163	cyclin-dependent kinase inhibitor 2A (m.		Hs.1174	6.6	1245 1246 5747
	417366	small proline-rich protein 1B (cornifin	BE185289	Hs.1076	6.6	1104 5642
	420981	peroxisome proliferative activated rece	L40904	Hs.100724	6.6	1495 1496 5936
~ <i>-</i>	432131	muscle disease-related protein	AB033021	Hs.272564	6.6	2843 2844 6911
85	444371	forkhead box M1	BE540274		6.5	3696 7651
	421508	absent in melanoma 2	NM_00483	3 Hs.1 05115	6.5	1551 1552 5977

	409012	DKFZP434l216 protein	AL117435	Hs.49725	6.5	293 294 5013
	417027	triadin	AA192306	Hs.23926	6.5	1062 5607
	426363 451766	transforming growth factor, beta 3	M58524	Hs.2025	6.5	2210 2211 6446
5	451766 402621	ephrin-B3 Target Exon	NM_001406	Hs.2 6988	6.5 .	4255 4256 8104
,	410270	tumor endothelial marker 1 precursor	AE270142	Un 405777	6.5	4684
	453041	Homo saptens cDNA FLJ11918 fis, ctone	AF279142 H AI680737	Hs.195727 Hs.289068	6.5 6.5	442 443 5121 4384 8211
	452063	ESTs, Wealthy similar to TWST_HUMAN		Hs.32366	6.5	4281 8124
	425308	receptor tyrosine kinase-like orphan re	M97639	Hs.155585	6.5	2087 2088 6362
10	438915	Williams-Beuren syndrome chromosome	reg AA280174	Hs.355711	6.5	3365 7348
	414315	gb:HSB65D052 STRATAGENE Human s	keletai Z2487	3	6.5	803 5409
	419833	Homo saplens tryptophanyl-IRNA synthet		Hs.220697	6.5	1388 5856
	406646	major histocompatibility complex, class	M33600	Hs.375570	6.5	36 37 4816
15	446142	ESTs	AI754693	Hs.145968	6.5	3820 7748
13	410611 431103	KIAA1628 protein plelotrophin (heparin binding growth fa	AW954134	Hs.20924 Hs.44	6.5	480 5148
	441636	Homo saptens mRNA; cDNA DKFZp5666	M57399 19375 AADR18	115.44 146 No 7024	6.5 6.5	2748 2749 6840 3530 7502
	409731	thymosin, beta, identified in neuroblas	AA125985	Hs.56145	6.4	386 5080
~~	443184	ESTs	AI638728	Hs.135159	6.4	3607 7574
20	456508	ESTs, Weakly similar to AF208855 1 BM-	0 AA502764	Hs.123469	6.4	4521 8325
	423563	protein kinase (cAMP-dependent, catalyt		Hs.75209	6.4	1817 6171
	416391	mesoderm specific transcript (mouse) ho		Hs.79284	6.4	999 5562
	440650	Human DNA sequence from PAC 75N13		Hs.326801		3477 7455
25	407826 424634	calpain 3, (p94) cartilage intermediate tayer protein, n	AA128423	Hs.40300	6.4	167 4911
23	432408	ESTs, Weakly similar to A46010 X-linked	NM_003613		6.4	1981 1982 6285
	436608	down syndrome critical region protein D	AA628980	Hs.356235 Hs.192371	6.4 6.4	2872 6934 3205 7207
	429415	procollagen C-endopeptidase enhancer	NM_002593		6.4	2557 2558 6706
•	429294	Homo sapiens cDNA: FLJ22463 fis, clone		Hs.198793	6.4	2540 6693
30	406387	Target Exon			6.4	4805
	427337	Fc fragment of IgG, low affinity IIIb,	Z46223	Hs.176663	6.4	2318 2319 6521
	431866	anglopoietin-like 2	NM_012098	Hs.8 025	6.4	2830 2831 6902
	418059	gb:zn56d05.s1 Stratagene muscle 93720			6.4	1186 5703
35	421778 432731	actin related protein 2/3 complex, subu fibronectin 1	AA428000	Hs.283072	6.4	1591 6003
55	448390	hypothetical protein	R31178 AL035414	Hs.287820	6.4	2904 6961
	434149	hypothetical protein MGC5469	Z43829	Hs.21068 Hs.244624	6.4 6.4	3999 7897 3030 7063
	431457	integrin, alpha 11	NM_012211		6.4	2787 2788 6870
40	444006	type I transmembrane protein Fn14	BE395085	Hs.334762	6.3	3668 7627
40	447414	neuroblastoma (nerve tissue) protein	D82343	Hs.74376	6.3	3924 3925 7834
	410234	fructose-1,6-bisphosphatase 2	NM_003837		6.3	435 436 5116
	418986	ESTs	Al123555	Hs.293821	6.3	1288 5779
	418883 451934	acid phosphalase 5, tartrate resistant	BE387036	Hs.1211	6.3	1281 5774
45	429451	ESTs heme oxygenase (decycling) 1	AI540842	Hs.61082*	6.3	4262 8109
	422106	Fc fragment of IgG binding protein	BE409861 D84239	Hs.202833 Hs.111732	6.3 6.3	2562 6709 1646 1647 6044
	420576	KIAA1858 protein	AA297634	Hs.54925	6.3	1463 5914
	435793	KIAA1313 protein	AB037734	Hs.4993	6.3	3152 3153 7162
50	409882	heat shock 27kD protein family, member	AJ243191	Hs.56874	6.3	395 396 5087
50	445107	ESTs, Weakly similar to l38022 hypothet		Hs.147313	6.3	3744 7689
	417675	similar to murine leucine-rich repeat p	A1808607	Hs.3781	6.3	1144 5670
	435406 415886	calcium/calmodulin-dependent protein ki	F26698	Hs.4884	6.3	3124 7140
	415885 406925	KIAA0161 gene product glycerol-3-phosphate dehydrogenase 1 (s	D79983	Hs.78894	6.3	953 954 5524
55	433577	ESTs		Hs.348601 Hs.284192	6.3 6.3	83 84 4845 2989 7028
	422746	glypican 3	NM_004484		6.3	1732 1733 6109
	453575	peptidyl arginine delminase, type II		Hs.33455	6.3	4425 4426 8246
	448030	membrane-spanning 4-domains, subfamil		Hs.325960	6.3	3971 7873
<i>6</i> 0	426935	collagen, type I, alpha 1	NM_000088	Hs.1 72928	6.3	2288 2289 6498
60	430643	MEGF10 protein		Hs.287425	6.3	2717 6817
	408562 420005	roundabout (axon guidance receptor, Dro		Hs.31141	6.3	240 4971
	429930	ESTs ESTs		Hs.133294	6.3	1407 5871
	451811	hypothetical protein MGC1136		Hs.352364 Hs.8719	6.3 6.3	2623 6751 4259 8106
65	453514	ESTs		Hs.50918	6.3	4424 8245
	416208	ESTs, Weakly similar to MUC2_HUMAN N		68 Hs.41295	6.2	981 5548
	441188	ESTs		Hs.255609	6.2	3503 7478
	440274	scrapie responsive protein 1	R24595	Hs.7122	6.2	3464 7443
70	410889	twist (Drosophila) homolog (acrocephalo		Hs.66744	6.2	501 502 5164
70	447733	MAD2 (milotic arrest deficient, yeast,		Hs.19400	6.2	3955 3956 7860
	419290 408212	spinal cord-derived growth factor-B hypothetical protein		Hs.112885	6.2	1327 5810
	424481	proteolipid protein 1 (Pelizaeus-Merzba		Hs.43728	6.2	206 4945
	434096	pleiomorphic adenoma gene-like 1		Hs.1787 Hs.75825	6.2 6.2	1960 6272 3029 7062
75	413031	phosphofructokinase, muscle		Hs.75160	6.2	671 5304
	453880	ESTs, Weakly similar to I38022 hypothet		Hs.135121	6.2	4458 8272
	424870	ESTs		Hs.244624	6.2	2014 6308
	418203	CDC28 protein kinase 2	X54942	Hs.83758	6.2	1202 1203 5719
80	457211	ESTs, Weakly similar to S51797 vasodila		Hs.32399	6.2	4543 8344
OU	417058	hypothetical protein MGC3169		Hs.85852	6.2	1069 5613
	412471 436252	endothelial cell growth factor 1 (plate	M63193	Hs.73946	6.2	591 592 5239
	430252	Homo sapiens cDNA FLJ11562 fis, clone : TYRO protein tyrosine kinase binding pr		Hs.142827	6.2 6.2	3179 7184
•-	424455	calcium channel, voltage-dependent, gam	AA45200R	Hs.9963 Hs.147989	6.2 6.2	3656 7617 1957 6270
85	414555	phospholipase A2, group IIA (platelets,		Hs.76422	6.2	830 5431
	429299	hypothetical protein MGC13102		Hs.347408	6.2	2541 6694

	410102	ESTs; homologue of PEM-3 [Clona savig			6.2	422 5107
	425256 416322	collapsin response mediator protein 1 pyrroline-5-carboxylate reductase 1	BE297611	Hs.155392	6.2	2074 6352
	428450	KIAA0175 gene product	BE019494	Hs.79217	6.2	989 5554
5	448731	ESTs	NM_014791 Al522273	Hs.173179	6.2 6.2	2443 2444 6621
•	452046	KIAA0802 protein	AB018345	Hs.27657	6.2	4030 7922 4275 4276 8120
	411411	ESTs, Weakly similar to KIAA1330 protei		Hs.55950	6.2	537 5194
	410295	nidogen (enactin)	AA741357	Hs.356624	6.2	450 5127
10	424825	procollagen-lysine, 2-oxoglutarate 5-di	AF207069	Hs.153357	6.1	2005 2006 6302
10	430250	chloride intracellular channel 5	NM_016929		6.1	2666 2667 6783
	407811 458079	cysteine knot superfamily 1, BMP antago Homo saplens similar to RIKEN cDNA 28	10 AI706970	Hs.40098 Hs.381220	6.1 6.1	164 4908
	401797	Target Exon	1074130010	115.50 1220	6.1 .	4566 8363 4663
	411962	gb:zk85d12.r1 Soares_pregnant_uterus_	Nb AA099050		6.1	563 5215
15	443780	activating transcription factor 5	NM_012068	Hs.9 754	6.1	3643 3644 7606
	417930	Homo sapiens mRNA for KIAA1870 prote		Hs.334604	6.1	1169 5691
	419987	osteomodulin	NM_005014		6.1	1402 1403 5868
	413945 450785	CD14 antigen Homo sapiens, alpha-1 (VI) collagen	NM_000591 AA852713		6.1	758 759 5371
20	444784	ectonucleotide pyrophosphatase/phosph		Hs.108885 Hs.11951	6.1 6.1	4193 8056 3724 3725 7673
	432842	hypothetical protein MGC4485	AW674093	Hs.334822	6.1	2911 6966
	452281	Homo sapiens cDNA FLJ11041 fis, clone		Hs.28792	6.1	4309 8149
	443883	serine (or cysteine) proteinase inhibit	AA114212	Hs.9930	6.1	3653 7614
25	433075	sortiin 1	NM_002959		6.1	2936 2937 6987
23	440704 414312	Insulin-like growth factor binding prot ESTs	M69241 AA155694	Hs.162	6.0	3482 3483 7459
	421913	osteoglycln (osteoinductive factor, mim	Al934365	Hs.191060 Hs.109439	6.0 6.0	800 5407 1611 6020
	413278	interferon-stimulated protein, 15 kDa	BE563085	Hs.833	6.0	695 5322
20	414657	protein phosphatase 1, regulatory (inhi	AA424074	Hs.76780	6.0	843 5442
30	448595	KIAA0644 gene product	AB014544	Hs.21572	6.0	4015 4016 7910
	418067	cystatin E/M	A)127958	Hs.83393	6.0	1189 5706
	444931 443105	general transcription factor IIIA chondroitin sulfate proteoglycan 4 (mel	AV652066 X96753	Hs.75113	6.0	3735 7681
	430439	DKFZP434B061 protein	AL133561	Hs.9004 Hs.380155	6.0 6.0	3600 3601 7568 2695 2696 6803
35	412006	ESTs	AW451618	Hs.380683	6.0	565 5217
	452106	ESTs	Al141031	Hs.21342	6.0	4289 8131
	416072	growth associated protein 43	AL110370	Hs.79000	6.0	969 5537
	441327	hypothelical protein FLJ10751	AK001706	Hs.7778	6.0	3509 3510 7484
40	406663 439706	immunoglobulin heavy constant mu ESTs, Weakly similar to DAP1_HUMAN to	U24683	77 Un E0764	6.0	39 40 4818
	416433	ESTs	Al65B904	Hs.84673	6.0	3421 7404 1004 5566
	423225	Thy-1 cell surface antigen	AA852604	Hs.125359	6.0	1786 6148
	421487	serine/threonine kinase 23	AF027406	Hs.104865	6.0	1548 1549 5975
15	429903	cyclin-dependent kinase 5, regulatory s	AL134197	Hs.93597	6.0	2616 6746
45	407896	Zic family member 1 (odd-paired Drosoph		Hs.41154	6.0	176 177 4919
	403903 425398	C5001632*:gi 10645308 gb AAG21430.1 hypothetical protein similar to tenasci	AL049689	Un 450200	6.0	4731
	420059	RAB23, member RAS oncogene family	AF161486	Hs.156369 Hs.94769	6.0 6.0	2101 2102 6370 1412 1413 5875
	413436	sphingosine kinase 1	AF238083	Hs.68061	6.0	721 722 5339
50	418299	Integrin, beta 2 (antigen CD18 (p95), I	AA279530	Hs.83968	6.0	1212 5725
	427239	ublquitin carrier protein	BE270447	Hs.356512	6.0	2311 6515
	428248 403086	ESTs NM_003319*:Homo sapiens titin (TTN), n	Al126772	Hs.40479	6.0	2414 6596
	425280	phosphoenolpyruvate carboxykinase 1 (s		Hs.1872	5.9 5.9	4705 2080 2081 6357
55	449378	ESTs	AW664026	Hs.59892	5.9	4085 7967
	417114	ESTs	AA193472	Hs.20007	5.9	1080 5621
	419968	interleukin 6 (interferon, beta 2)	X04430	Hs.93913	5.9	1399 1400 5866
	408491	ESTs	Al088063	Hs.7882	5.9	230 4961
60	452291 436748	CDC7 (cell division cycle 7, S. carevis collagen, type VI, alpha 2	AF015592	Hs.28853	5.9	4310 4311 8150
00	426928	retinol dehydrogenase 5 (11-cis and 9-c	BE159107 AF037062	Hs.159263 Hs.172914	5.9 5.9	3212 7213 2285 2286 6496
	402992	Target Exon		, , , , , , , , , , , , , , , , , , , ,	5.9	4700
	428342	Homo saplens cDNA FLJ13458 fis, clone	P Al739168	Hs.349283	5.9	2432 6611
65	410628	ESTs, Moderately similar to similar to	AJ131408	Hs.68756	5.9	483 5151
03	451195	mesenchyme homeo box 1	U10492	Hs.438	5.9	4218 4219 8077
	437446 424001	ESTs, Moderately similar to CA1C RAT C paternally expressed 10	W67883	Hs.101302	5.9	3264 7259
	417632	glycoprolein M6B	R20855	Hs.137476 Hs.379090	5.9 5.9	1882 6217 1141 5667
	430171	skin-specific protein	AF086289	Hs.234766	5.9	2657 6776
70	419682	paired-like homeodomain transcription f	H13139	Hs.92282	5.9	1368 5841
	422567	glypican 6	AF111178	Hs.118407	5.9	1702 1703 6087
	409430 453271	splicing factor, arginine/serine-rich 5	R21945	Hs.346735	5.9	348 5052
	429207	ESTs ESTs	AA903424 AA447941	Hs.6786 Hs.123423	5.8 5.8	4409 8232
75	442295	Homo sapiens cDNA FLJ11469 fis, clone		Hs.224398	5.8	2532 6686 3555 7527
	424440	ESTs	AA340743	Hs.133208	5.8	1951 6266
	413795	ESTs	AL040178	Hs.142003	5.8	743 5358
	424806 401771	MSTP031 protein	AA382523	Hs.105689	5.8	2004 6301
80	401771 450421	Target Exon ADP-ribosyltransferase 3	C03188	Hs.24976	5.8 5.8	4660 4166 8034
- •	426457	chimerin (chimaerin) 1	AW894667	Hs.380138	5.8 5.8	4166 8034 2229 6459
	429670	protein kinase C, theta	L01087	Hs.211593	5.8	2602 2603 6735
	456034	gb:UI-H-BI3-ala-a-12-0-UI.s1 NCI_CGAP			5.8	4510 8316
85	421485	hypothetical protein FLJ10134	AA243499	Hs.104800	5.8	1547 5974
55	447217 410356	neuropilin 2 hypothetical protein	BE465754 Al267589	Hs.17778	5.8	3904 7819 457 5133
	5000	"Abanianan brammi		Hs.302689	5.8	457 5133

	444143	ESTs, Moderately similar to A56194 thro		Hs.160999	5.8	3679 7637
	447770 427418	frizzled (Drosophila) homolog 4 LAT1-3TM protein	AB032417	Hs.19545	5.8	3961 3962 7864
	439039	ESTs	AA402587 Al656707	Hs.356667 Hs.48713	5.7 5.7	2327 6527
5	416908	coagulation factor XIII, A1 polypeptide	AA333990	Hs.80424	5.7	3373 7356 1044 5594
	427474	aggrecan 1 (chondroitin sulfate proteog	U13192	Hs.2159	5.7	2334 6532
	414285	ESTs	AA312914	Hs.71719	5.7	798 5405
	406868 423858	immunoglobulin heavy constant gamma	3 (AA505445	Hs.300697	5.7	72 4839
10	414142	Homo saplens mRNA; cDNA DKFZp434 hemicentin (fibulin 6)	AW368397	7326 HS.1334 Hs.334485	183 5.7 5.7	1858 6201
	438704	ESTs	AV35060	Hs.6705	5.7 5.7	781 5390 3349 7334
	432693	ESTs	AW449630	Hs.293790	5.7	2900 6958
	456534	phospholipase C, beta 3, neighbor pseud	X91195	Hs.100623	5.7	4522 8326
15	440594	ESTs	AW445167	Hs.126036	5.7	3475 7453
13	409125 410867	axonal transport of synaptic vesicles fibrilin 1 (Marfan syndrome)	R17268	Hs.343567	5.7	308 5024
	452360	ESTs	X63556 Al742082	Hs.750 Hs.98539	5.7 5.7	498 499 5162
	406714	hemoglobin, gamma G	Al219304	Hs.266959	5.7	4321 8158 63 4830
20	426968	amphiphysin (Stiff-Mann syndrome with t	U07616	Hs.173034	5.7	2290 2291 6499
20	439551	ESTs	W72062	Hs.11112	5.7	3406 7389
	439668 403074	frizzled (Drosophila) homolog 8	AI091277	Hs.302634	5.7	3414 7397
	453596	NM_003319":Homo saplens titin (TTN), r hypothetical protein FLJ14834	TIK AA441838	Un 62006	5.7	4703
	444367	hypothetical protein FLJ22390	H54892	Hs.62905 Hs.10974	5.7 5.7	4428 8248 3695 7650
25	422491	neuronatin	AA338548	Hs.117546	5.7	1691 6077
	418283	cathepsin K (pycnodysostosis)	S79895	Hs.83942	5.7	1210 1211 5724
	417605	regulator of G-protein signalling 3	AF006609	Hs.82294	5.7	1138 1139 5665
	404030	NM_015669*:Homo saplens protocadher			5.7	4735
30	433124 409553	hypothetical protein SMAP31 semaphorin Y	U51712 AF055020	Hs.13775	5.7	2942 6992
50	419693	FXYD domain-containing ion transport re		Hs.54937 Hs.301350	5.7 5.7	359 360 5060 1371 5844
	408829	heparan sulfate (glucosamine) 3-0-sulfo			5.7	264 265 4991
	420486	caveolin 3	AF036365	Hs.98303	5.7	1456 1457 5909
25	428418	ESTs	Al368826	Hs.8768	5.7	2441 6619
35	425240	phosphoglucomutase 1	AA306495	Hs.1869	5.6	2071 6350
	452242 410132	gycosyltransferase Microfibril-associated glycoprotein-2	R50956	Hs.159993	5.6	4305 8145
	421848	collagen, type VI, alpha 1	NM_003480 X15880	Hs.108885	5.6 5.6	425 426 5110
4.0	425157	phospholipid transfer protein	NM_006227		5.6	1602 1603 6013 2057 2058 6340
40	448672	ESTs	Al955511	Hs.89582	5.6	4025 7917
	419405	ESTs	A1377043	Hs.42189	5.6	1333 5816
	439737	Homo sepiens mRNA full length insert co		Hs.41271	5.6	3427 7410
	427452 433635	protein phosphatase hypothetical protein MGC12921	NM_016364		5.6	2330 2331 6529
45	417511	chordin-like	Al074502 Al049176	⊭s.134292 Hs.82223	5.6 5.6	2994 7032
	415701	gamma-glularnyl hydrolase (conjugase, fo			5.6	1125 1126 5657 940 941 5514
	438866	tissue inhibitor of metalloproteinase 2	U44385	Hs.6441	5.6	3360 3361 7344
	453341	adenylyl cyclase-associated protein 2	Al758912	Hs.296341	5.6	4414 8237
50	418867 421948	msh (Drosophila) homeo box homolog 2 keratin 6A	D31771	Hs.89404	5.6	1277 1278 5772
50	435080	hypothetical protein FLJ14428	L42583 AIB31760	Hs.334309 Hs.155111	5.6	1618 1619 6025
	412430	fumarylacetoacetate hydrolase (fumaryla		Hs.73875	5.6 5.6	3103 7122 584 5233
	427019	hypothetical protein FLJ10970	AA001732	Hs.173233	5.6	2296 6504
55	449318	Homo sapiens, Similar to RIKEN cDNA 5	73 AW236021	Hs.78531	5.6	4080 7962
33	431347 414020	insulin-like growth factor 2 (somatomed	AJ133461	Hs.251664	5.6	2774 6859
	427527	small inducible cytokine A4 (homologous immunoglobulin heavy constant mu	NM_002984 Al809057		5.5	767 768 5378
	410036	calsequestrin 2 (cardiac muscle)	R57171	Hs.153261 Hs.57975	5.5 5.5	2340 6536 412 5100
	435520	HNOEL-iso protein	AA297990	Hs.9315	5.5	3130 7146
60	409893	minichromosome maintenance deficient (S AW247090	Hs.57101	5.5	397 5088
	426485	platelet-derived growth factor receptor	NM_006207		5.5	2238 2239 6465
	418322 413670	cyclin-dependent kinase inhibitor 3 (CD hypothetical protein, expressed in oste	AA284166	Hs.84113	5.5	1214 5727
	405681	C3000593*:gi 10120319 emb CAC08185.	AB000115	Hs.75470	5.5 5.5	735 736 5352 4793
65	421362	hypothetical protein FLJ20043	AK000050	Hs.103853	5.5	1531 1532 5965
	424125	inhibin, beta B (activin AB beta potype	M31669	Hs.1735	5.5	1900 1901 6230
	453830	ESTs	AA534296	Hs.20953	5.5	4445 8263
	403857 431706	Target Exon	41040000	1). 000044	5.5	4730
70	430044	adenylyl cyclase-associated protein 2 ESTs	AI816086 AA464510	Hs.296341 Hs.152812	5.5	2811 6887
. •	441611	ESTs	AW590829	Hs.133463	5.5 5.5	2642 6765 3528 7500
	453828	ESTs	AW970960	Hs.293821	5.5	4444 8262
	413435	carboxypeptidase E	X51405	Hs.75360	5.5	719 720 5338
75	411358	KIAA1691 protein	R47479	Hs.94761	5.5	527 5186
75	419621 416491	Homo sapiens clone B18 unknown mRNA parathyroid hormone receptor 1			5.5	1361 5835
	400297	hypothetical protein DKFZp564O1278	U17418 Al127076	Hs.1019	5.5	1005 1006 5567
	426075	ESTs, Weakly similar to 2109260A B cell	AW513691	Hs.288381 Hs.270149	5.5 5.5	7 4618 2170 6417
00	434715	ESTs	BE005346	Hs.116410	5.5	3070 7094
80	443163	ESTs	AI082610	Hs.132079	5.5	3605 7572
	432485 425262	CDW52 antigen (CAMPATH-1 antigen)	N90866	Hs.276770	5.5	2877 6939
	423202	GS3955 protein ESTs	D87119 AA805132	Hs.155418	5.5	2076 2077 6354
0.5	441020	ESTs	W79283	Hs.159142 Hs.35962	5.5 5.5	2970 7011 3495 7471
85	419086	Kallmann syndrome 1 sequence	NM 000216	Hs 8 9591	5.4	1300 1301 5789
	420058	Homo sapiens cDNA FLJ10561 fis, clone	N AK001423	Hs.94694	5.4	1411 5874

	408901	hypothetical protein FLJ10468	AK001330	Hs.48855	5.4	272 273 4997
	406836	immunoglobulin kappa constant	AW514501	Hs.156110	5.4	68 4835
	453649	ATPase, Na? transporting, alpha 2 () po	Y07494	Hs.34114	5.4	4432 4433 8252
5	410581	tumor endothellal marker 7 precursor	AA018982	Hs.125036	5.4	478 5146
)	448988 419750	gamma-aminobutyric acid (GABA) A rece		Hs.22785	5.4	4055 4056 7940
	431070	Homo saptens cDNA FLJ14236 fis, clone transcription factor 19 (SC1)	AW408164	Hs.183114	5.4	1385 5853
	430147	hairy/enhancer-of-split related with YR	R60704	Hs.249184 Hs.234434	5.4 5.4	2744 6837
	441689	ESTs	Al123705	Hs.289068	5.4	2652 6773 3533 7505
10	416406	lipoma HMGIC fusion partner-like 2	D86961	Hs.79299	5.4	1001 1002 5564
	443595	PPAR(gamma) anglopotetin related prote		Hs.9613	5.4	3626 3627 7590
	438203	ESTs	BE540090	Hs.7345	5.4	3308 7300
	<u>4</u> 19235	neurotrimin	AW470411	Hs.288433	5.4	1320 5804
	407785	ESTs, Weakly similar to A43932 much 2	AW207285	Hs.98279	5.4	160 4904
15	447471	sprouty (Drosophila) homolog 2	AF039843	Hs.18676	5.4	3930 3931 7839
	432247	ESTs	AA531287	Hs.105805	5.4	2859 6923
	447343	ESTs, Highly similar to S02392 alpha-2-	AA256641	Hs.236894	5.4	3916 7828
	412507	EphA4	L36645	Hs.73964	5.4	596 597 5243
20	414416 427596	hypothetical protein MGC2721	AW409985	Hs.76084	5.4	813 5417
20	408660	extracellular glycoprotein EMILIN-2 pre ESTs, Moderately similar to PC4259 ferr	AA449506 AA525775	Hs.270143	5.4 5.4	2350 6544
	447261	extracellular link domain-containing 1	NM_006691	Hs.89040	5.4 5.4	247 4977
	417421	nuclear receptor subfamily 4, group A,	AL138201	Hs.82120	5.4	3908 3909 7823 1118 5653
	426855	Homo sapiens mRNA; cDNA DKFZp566F				2279 6491
25	451952	ESTs	AL120173	Hs.301663	5.3	4264 8111
	447297	protease, cystelne, 1 (legumain)	BE617970	Hs.18069	5.3	3914 7826
	414459	CCAAT/enhancer binding protein (C/EBP), Y11525	Hs.76171	5.3	818 819 5422
	444412	Homo sapiens clone HH409 unknown mF	RNA A114765	2 Hs.216381	5.3	3700 7655
20	422809	hypothetical protein FLJ10549	AK001379	Hs.121028	5.3	1741 1742 6115
30	448498	ESTs	AA418276	Hs.375003	5.3	4007 7904
	441104	ESTs	Al382357	Hs.143903	5.3	3499 7474
	427400	hypothetical protein FLJ11939	AW245084	Hs.94229	5.3	2325 6525
	422765 441362	baculoviral IAP repeat-containing 5 (su RAD51 (S. cerevisiae) homolog (E coli R	AW409701	Hs.1578	5.3	1734 6110
35	400288	Integrin, alpha 5 (fibronectin receptor	BE614410 X06256	Hs.23044 Hs.149609	5.3 5.3	3512 7486 1 2 4614
55	438086	nuclear receptor subfamily 1, group 1,	AA336519	Hs.83623	5.3	3300 7293
	452355	G protein-coupled receptor 34	N54926	Hs.29202	5.3	4320 8157
	452056	Homo sapiens, clone IMAGE:4054156, m				4280 8123
4.0	414531	allograft inflammatory factor 1	T69387	Hs.76364	5.3	829 5430
40	406698	major histocompatibility complex, class	X03068	Hs.73931	5.3	51 52 4824
	445084	hypothetical protein FLJ14761	H38914	Hs.250848	5.3	3742 7687
	418110	hypothetical protein FLJ22202	R43523	Hs.217754	5.3	1193 5710
	408018	ESTs	Al912976	Hs.187497	5.3	185 4927
45	417160	proteolipid protein 1 (Pelizaeus-Merzba	N76497	Hs.355807	5.3	1086 5626
73	427099 453079	odd Oz/ten-m homolog 2 (Drosophila, mo		Hs.173560	5.3	2302 2303 6509
	422100	LIM protein (similar to rat protein kin ADP-ribosylation factor-like 7	AW160480 Al096988	Hs.154103 Hs.111554	5.3 5.3	4387 8214 1644 6042
	424078	paternally expressed 3	AB006625	Hs.139033	5.3	1893 1894 6225
	426413	gb:EST90805 Synovial sarcoma Homo sa			5.3	2219 6453
50	407366	gb:Homo sapiens cig33 mRNA, partial se	q AF026942	Hs.17518	5.3	137 4885
	428046	ESTs, Moderately similar to 138022 hypo	AW812795	Hs.337534	5.3	2393 6579
	422562	AE-binding protein 1	·Al962060	Hs.118397	5.3	1700 6085
	416140	roundabout (axon guidance receptor, Dro		Hs.301198	5.3	978 5545
55	421016	transcription factor 3 (E2A immunoglobu	AA504583	Hs.101047	5.3	1497 5937
JJ .	417259	chondroitin sulfate proteoglycan 2 (ver	AW903838	Hs.81800	5.3	1092 5632
	413199 435256	ELAV (embryonic lethal, abnormal vision cytokine-like protein C17		Hs.75238	5.3	687 688 5317
	410738	lilin	AF193766 AA197128	Hs.13872	5.3	3116 3117 7133
	453935	ESTs	Al633770	Hs.172004 Hs.42572	5.3 5.3	491 5156 4470 8281
60	408753	SH3 domain binding glutamic acid-rich p		Hs.47438	5.3	254 4983
	432098	cytochrome P450 retinoid metabolizing p		Hs.91546	5.2	2839 2840 6908
	432503	ESTs	AA551196	Hs.188952	5.2	2878 6940
	439999	ras homolog gene family, member E	AA115811	Hs.6838	5.2	3444 7426
65	425065	Homo sapiens, clone IMAGE:3603836, m				2042 6329
05	428834	ESTs	AW899713	Hs.10338	5.2	2479 6647
	450923 412563	ESTs Monthly almilled in 120022 handled	AW043951	Hs.38449	5.2	4203 8063
	428976	ESTs, Weakly similar to 138022 hypothet ras homolog gene family, member I	AL037824	Hs.350621	5.2	605 5250
	407965	heat shock 27kD protein 3	W21483	Hs.194695 Hs.41707	5.2 5.2	2495 6658
70	410624	ESTs, Weakly similar to alternatively s	AA180060	Hs.68751	5.2	183 4925 482 5150
	442080	ESTs	AW444761	Hs.72901	5.2	3549 7521
	408989	KIAA0746 protein	AW361666	Hs.49500	5.2	290 5010
	427700	dual specificity phosphatase 6	AA262294	Hs.180383	5.2	2361 6554
75	411020	macrophage receptor with collagenous st			5.2	506 507 5168
75	453767	extracellular matrix protein 2, female	AB011792	Hs.35094	5.2	4439 4440 8258
	414117	proteolipid protein 1 (Pelizaeus-Merzba	W88559	Hs.355807	5.2	777 5386
	424651	ESTS	Al493206	Hs.120785	5.2	1984 6287
	407874 435977	Homo sapiens cDNA FLJ14059 fis, clone brain-specific membrane-anchored protei	11 M1/00311	Hs.289047	5.2 5.2	175 4918
80	423013	secreted modular calcium-binding protei	AW875443	Hs.5012 Hs.22209	5.2 5.2	3166 7174 1769 6135
	423217	collagen, type VII, alpha 1 (epidermoly	NM_000094		5.2	1784 1785 6147
	448569	signal transducer and activator of tran	BE382657	Hs.21486	5.2	4014 7909
	428862	SRY (sex determining region Y)-box 9 (c	NM_000346	Hs.2 316	5.2	2483 2484 6650
0 <i>F</i>	453948	ESTs	Al970797	Hs.64859	5.2	4473 8283
85	427871	Homo sapiens, clone IMAGE:3507281, m			5.2	2380 6568
	416729	Ras-related associated with diabetes	U46165	Hs.1027	5.2	1026 1027 5581

•						
	406851	major histocompatibility complex, class	AA609784	Hs.352392	5.2	71 4838
	429197	ESTs, Weakly similar to T20272 hypothet		Hs.26930	5.2	2531 6685
	433013		A1697890	Hs.127337	5.2	2927 6979
	428317	ESTs	AW022609	Hs.50745	5.2	2431 6610
5	432290	Homo sapiens cONA FLJ10237 fis, clone I		Hs.274273	5.2	2862 6926
_	422901	ribosomal protein L44	R81936	Hs.75874	5.2	1757 6126
	452698	chemokine (C-C motif) receptor 1	NM_001295	Hs.3 01921	5.2	4343 4344 8177
	410099	KIAA0036 gene product	AA081630	Hs.167	5.2	421 5106
	429266		A)014510	Hs.350621	5.2	2537 6691
10	426527		NM_001037	Hs.1 70238	5.2	2247 2248 6471
10	403291	Target Exon	_		5.2	4713
	410494		M36564	Hs.64016	5.1	466 467 5139
	443960	hypothetical protein FLJ21986	AI093577	Hs.255416	5.1	3663 7623
	441944	Homo sapiens clone 23767 and 23782 mF			5.1	3541 7513
15	429455	CD209 antigen	AJ472111	Hs.278694	5.1	2563 6710
15	449780		AA443241	Hs.75874	5.1	4114 7992
		ribosomal protein L44	AF062649	Hs.252587	5.1	2586 2587 6726
	429612	pituitary tumor-transforming 1	Z37976	Hs.83337	5.1	1180 1181 5699
	418036	latent transforming growth factor beta	AL050295	Hs.362806	5.1	4038 4039 7928
20	448782	KIAAD758 protein	AA379597	Hs.5199	5.1	3192 7197
20	436481	HSPC150 protein similar to ubiquitin-co	NM_003652		5.1	913 914 5491
	415166	carboxypeptidase Z	NB8802	Hs.5422	5.1	921 5497
	415314	glycoprotein M6B	AI752409	Hs.109314	5.1	3400 7383
	439456	hypothetical protein FLJ20980		Hs.234898	5.1	1060 5605
25	417011	ESTs, Weakly similar to 2109260A B cell	TU0212	Hs.288850		595 5242
25	412490	Homo sapiens cDNA: FLJ22528 fis, clone	AVV6U3304		5.1	3085 7106
	434868	collagen, type VI, alpha 2	R50032	Hs.159263	5.1	
	419956		AL137939	Hs.40096	5.1	1398 5865
	438085	ESTs	R52518	Hs.7967	5.1	3299 7292 2157 6408
40	425964	progesterone membrane binding protein	AW889928	Hs.9071	5.1	
30	418400	KIAA0246 protein	BE243026	Hs.301989	5.1	1234 5739
	416051	mannosidase, alpha, class 1A, member 1		Hs.25253	5.1	966 5534
	445363	tubulin-specific chaperone d	NM_005993		5.1	3762 3763 7702
	414715	amylo-1,6-glucosidase, 4-alpha-glucanot		Hs.904	5.1	855 5450
	414945	lymphocyte antigen 6 complex, locus E	BE076358	Hs.77667	5.1	894 5477
35	425227	ESTs	H84455	Hs.40639	5.1	2069 6348
	448357	RAB38, member RAS oncogene family	N20169	Hs.108923	5.1	3994 7893
	437802	ESTs	A1475995	Hs.122910	5.1	3288 7281
	408161	hypothetical protein MGC3032	AW952912	Hs.300383	5.1	195 4937
	447519	ESTs	U46258	Hs.339665	5.1	3936 7844
40	443060	procollagen C-endopeptidase enhancer 2	2 D78874	Hs.8944	5.1	3594 7562
	423550	ESTs	F37675	Hs.152129	5.1	1815 6169
	429583	1-acytglycerol-3-phosphate O-acyltransf	NM_006412	Hs.2 09119	5.1	2581 2582 6723
	400263	Eos Control	_	Hs,75309	5.1	4613
	452436	ESTs, Moderately similar to A46010 X-li	BE077546	Hs.31447	5.1	4330 8164
45	411756	discoidin domain receptor family, membe		Hs.71891	5.1	550 5205
	428311	tryptophan 2,3-dloxygenase		Hs.1 83671	5.1	2429 2430 6609
	446681	kendrin	AJ003624	Hs.15896	5.1	3869 7789
	420028	carbohydrate (N-acetylglucosamine-6-0)		Hs.8786	5.1	1408 1409 5872
	451292	KIAA1295 protein	AB037716	Hs.26204	5.1	4221 4222 8079
50	432306	protein phosphatase 1, regulatory (inhi	Y18207	Hs.303090	5.1	2864 2865 6928
50	413063	chitinase 3-like 1 (cartilage glycoprot	AL035737	Hs.75184	5.1	676 5308
	452689	transferrin	F33868	Hs.284176	5.1	4342 8176
	444783	anillin (Drosophila Scraps homolog), ac	AK001468	Hs.62180	5.1	3722 3723 7672
	402994	NM_002463*:Homo saplens myxovirus (, 10.02.00	5.1	4701
55	411894	GLI-Kruppel family member GLI3 (Greig		Hs.72916	5.1	559 560 5212
))	445900	Homo sapiens clone 24787 mRNA seque	ence AF0705	26 Hs.125036		3803 7733
	450606	ESTs, Moderately similar to ALU6_HUM	AN AIGGROOF	Hs.60380	5.1	4177 8042
	430513	G6C protein	AJ012008	Hs.241586	5.1	2704 2705 6809
	420162	cyclin-dependent kinase 4	BE378432	Hs.95577	5.1	1422 5883
60	420255	membrane metallo-endopeptidase (neuti			5.0	1438 1439 5895
00	423556	dynein, cytoplasmic, heavy polypeptide	R72694	Hs.356692	5.0	1816 6170
	417933	thymidylate synthetase	X02308	Hs.82962	5.0	1170 1171 5692
	426156	natriuretic peptide receptor Alguanylat	BE244537	Hs.167382		2183 6427
	427509	complement component 5 receptor 1 (Cl		Hs.2161	5.0	2338 2339 6535
65	427303 451149	RNA binding motif protein 88	AL047586	Hs.10283	5.0	4214 B073
05	422175	ESTs, Highly similar to T00391 hypothel		Hs.6382	5.0	1657 6053
		Homo sapiens mRNA full length insert of	D N77000	Hs.8963	5.0	3595 7563
	443062	flap structure-specific endonuclease 1	AC004770		5.0	3104 3105 7123
	435099 436291	protein regulator of cytokinesis 1	BE568452			3180 7185
70			AI733278	Hs.7621	5.0	3375 7358
70	439070 402855	ESTs NM_001839*:Homo sapiens calponin 3,		113,1021	5.0	4694
		SRY (sex determining region Y)-box 22	AL034548	Hs.43627	5.0	199 200 4940
	408196	bone morphogenetic protein 7 (osteoger				2246 6470
	426514	KIAA0990 protein		8 Hs.1 10488		1622 1623 6028
75	421991		AA010984			4190 8054
13	450755	ESTs minichromosome maintenance deficient				2341 6537
	427528		AF120103			2519 2520 6677
	429150	smoothened (Drosophila) homolog	AF120103 AI631602	Hs.258949		4066 7950
	449129	ESTs Human unidentified mRNA, partial sequ		Hs.159901		2152 6404
80	425863	myocilin, trabecular meshwork inducible		Hs.78454	5.0	927 928 5503
50	415447	bone marrow stromal cell antigen 2	AW972300			1696 6082
	422530		AL050163			1687 1688 6075
	422481	DNAX-activation protein 10			5.0	3114 3115 7132
	435232	cyclin-dependent kinase Inhibitor 2C (p	M97815	32 Hs.4 854 Hs.183650		2427 2428 6608
85	428309	cellular retinolo acid-binding protein gb:zm79g08.r1 Stratagene neuroepithe			5.0	769 5379
O)	414024	•	AA630865			3049 7076
	434355	ESTs	- V-1000000	. 113.100000	. 5.0	WIN INIV

	4.124.00			•		
	445160	sine oculis homeobox (Drosophila) homol	Al299144	Hs.101937	5.0	3748 7692
	441389	endocytic receptor (macrophage mannose		Hs.7835	5.0	3514 3515 7488
	437696	hypothetical protein dJ37E16.5	Z83844	Hs.5790	5.0	3281 7274
5	421483	hypothetical protein MGC11333	NM_003388	Hs.1 04717	5.0	1545 1546 5973
)	408826	Homo sapiens clone HB-2 mRNA sequen	ce AF216077	Hs.48376	5.0	263 4990
	439332	Homo saplens mRNA; cDNA DKFZp547N				3393 7376
	429170	dual specificity phosphatase 4	NM_001394		5.0	2524 2525 6680
	449353	ESTs	AA001220	Hs.242947	5.0	4084 7966
10	443859	follistatin	NM_013409	Hs.9 914	5.0	3651 3652 7613
10	415052	mesenchyme homeo box 2 (growth arrest			5.0	904 905 5485
	435905	KIAA0456 protein	AW997484	Hs.5003	5.0	3160 7168
	426304	Homo sapiens cDNA FLJ11477 fis, clone			5.0	2198 6438
	436396	wingless-type MMTV integration site fam ESTs		Hs.152213	5.0 .	3184 7189
15	434175		AW979081	Hs.165469	5.0	3032 7065
13	421506	thymidine kinase 1, soluble	BE302796	Hs.105097	5.0	1550 5976
	431958	cadherin 3, type 1, P-cadherin (placent	X63629	Hs.2877	5.0	2834 2835 6904
	410600	ESTs, Moderately similar to S65657 alph		Hs.351676	5.0	479 5147
	433043	lymphoid nuclear protein (LAF-4) mRNA	W57554	Hs.125019	5.0	2930 6982
20	422363	replication factor C (activator 1) 3 (3	T55979	Hs.115474	5.0	1673 6065
20	438944	KIAA1444 protein	AA302517	Hs.92732	4.9	3368 7351
	411089	cell division cycle 2-like 1 (PITSLRE p	AA456454	Hs.214291	4.9	513 5173
	428949	hypothetical protein DKFZp434J0617	AA442153	Hs.104744	4.9	2490 6655
	407204	ESTs, Weakly similar to ALU1_HUMAN A		Hs.140237	4.9	121 4873
25	409062 428227	Homo saplens mRNA; cDNA DKFZp564B				301 5018
23		small inducible cytokine subfamily B (C	AA321649	Hs.2248	4.9	2410 6593
	428182	ESTs, Weakly similar to GGC1_HUMAN (2403 6588
	417059 453597	extracellular matrix protein 1	AL037672	Hs.81071	4.9	1067 5611
		myo-inositol 1-phosphate synthase A1	BE281130	Hs.381118	4.9	4429 8249
30	423057	ESTs, Moderately similar to 138022 hypo		Hs.130816	4.9	1773 6139
50	422684 432101	H2A histone family, member Z	BE561617	Hs.119192	4.9	1726 6105
		EphA3	AI918950	Hs.123642	4.9	2841 6909
	407756	ubiquitin specific protease 18	AA116021	Hs.38260	4.8	159 4903
	424308 410108	minichromosome maintenance deficient (Hs.154443	4.8	1932 6250
35	444670	OSBP-related protein 6	AA081659	Hs.318775	4.8	423 5108
33		hypothetical protein MGC5370	H58373	Hs.332938	4.8	3714 7666
	427378 417796	melanoma antigen, family D, 1	BE515037	Hs.177556	4.8	2322 6523
		ESTs	AA206141	Hs.367818	4.8	1159 5682
	418216 452973	AF15q14 protein	AA662240	Hs.283099	4.8	1206 5721
40	431448	ESTs	H88409	Hs.40527	4.8	4375 8203
70	434747	hypothetical protein DKFZp564O1278	AL137517	Hs.306201	4.8	2785 2786 6869
	435124	ESTs ESTs	AA837085	Hs.372254	4.8	3073 7097
	414053		AA725362	Hs.75514	4.8	3107 7125
	408938	transgelin 2 ESTs	BE391635	Hs.75725 Hs.22607	4.8	774 5383
15	400330	C019	AA059013		4.8	279 5002
47	42023B	ESTe Months cimilar to 21002504 B cell	A A 200702		4.0	
45	420238	ESTs, Weakly similar to 2109260A B cell		Hs.12549	4.8	1436 5894
43	407656	Homo sapiens mRNA; cDNA DKFZp434B	2119 (AW747	Hs.12549 1986 Hs.3744	3 4.8	1436 5894 148 4893
43	407656 410011	Homo sapiens mRNA; cDNA DKFZp4348 PFTAIRE protein kinase 1	2119 (AW747 AB020641	Hs.12549 1986 Hs.3744 Hs.57856	3 4.8 4.8	1436 5894 148 4893 406 407 5096
43	407656 410011 416640	Homo sapiens mRNA; cDNA DKFZp434B PFTAIRE protein kinase 1 neuron-specific protein	2119 (AW747 AB020641 BE262478	Hs.12549 1986 Hs.3744 Hs.57856 Hs.13406	3 4.8 4.8 4.8	1436 5894 148 4893 406 407 5096 1019 5576
	407656 410011 416640 453983	Homo sapiens mRNA; cDNA DKFZp434B PFTAIRE protein kinase 1 neuron-specific protein ESTs	2119 (AW747 AB020641 BE262478 H94997	Hs.12549 986 Hs.3744 Hs.57856 Hs.13406 Hs.16450	3 4.8 4.8 4.8 4.8	1436 5894 148 4893 406 407 5096 1019 5576 4476 8286
50	407656 410011 416640 453983 420842	Homo sapiens mRNA; cDNA DKFZp434B PFTAIRE protein kinase 1 neuron-specific protein ESTs hypothetical protein MGC10986	2119 (AW747 AB020641 BE262478 H94997 Al083668	Hs.12549 1986 Hs.3744 Hs.57856 Hs.13406 Hs.16450 Hs.50601	3 4.8 4.8 4.8 4.8 4.8	1436 5894 148 4893 406 407 5096 1019 5576 4476 8286 1485 5929
	407656 410011 416640 453983 420842 429707	Homo sapiens mRNA; cDNA DKFZp434B PFTAIRE protein kinase 1 neuron-specific protein ESTs hypothetical protein MGC10986 matrix metalloproteinase 23B	2119 (AW747 AB020641 BE262478 H94997 Al083668 -W76631	Hs.12549 986 Hs.3744 Hs.57856 Hs.13406 Hs.16450 Hs.50601 Hs.211819	3 4.8 4.8 4.8 4.8 4.8 4.8	1436 5894 148 4893 406 407 5096 1019 5576 4476 8286 1485 5929 2606 6738
	407656 410011 416640 453983 420842 429707 447232	Homo saplens mRNA; cDNA DKFZp434B PFTAIRE protein kinase 1 neuron-spedific protein ESTs hypothetical protein MGC10986 matrix metalloproteinase 23B interleukin 10 receptor, alpha	2119 (AW747 AB020641 BE262478 H94997 Al083668 W76631 AW499834	Hs.12549 986 Hs.3744 Hs.57856 Hs.13406 Hs.16450 Hs.50601 Hs.211819 Hs.327	3 4.8 4.8 4.8 4.8 4.8 4.8 4.8	1436 5894 148 4893 406 407 5096 1019 5576 4476 8286 1485 5929 2606 6738 3905 7820
50	407656 410011 416640 453983 420842 429707 447232 417370	Homo saplens mRNA; cDNA DKFZp434B PFTAIRE protein kinase 1 neuron-specific protein ESTs hypothetical protein MGC10986 matrix metalloproteinase 23B interleukin 10 receptor, alpha tryptophanyl-tRNA synthetase	2119 (AW747 AB020641 BE262478 H94997 Al083668 -W76631 AW499834 T28651	Hs.12549 986 Hs.3744 Hs.57856 Hs.13406 Hs.16450 Hs.50601 Hs.211819 Hs.327 Hs.374466	3 4.8 4.8 4.8 4.8 4.8 4.8 4.8 4.8	1436 5894 148 4893 406 407 5096 1019 5576 4476 8286 1485 5929 2606 6738 3905 7820 1105 5643
50	407656 410011 416640 453983 420842 429707 447232 417370 406672	Homo saplens mRNA; cDNA DKFZp434B PFTAIRE protein kinase 1 neuron-specific protein ESTs hypothetical protein MGC10986 matrix metalloproteinase 23B interleukin 10 receptor, alpha tryptophanyl-tRNA synthetase major histocompatibility complex, class	2119 (AW747 AB020641 BE262478 H94997 Al083668 W76631 AW499834 T28651 M26041	Hs.12549 1986 Hs.37444 Hs.57856 Hs.13406 Hs.16450 Hs.50601 Hs.211819 Hs.327 Hs.374466 Hs.198253	3 4.8 4.8 4.8 4.8 4.8 4.8 4.8 4.8 4.8	1436 5894 148 4893 406 407 5096 1019 5576 4476 8286 1485 5929 2606 6738 3905 7820 1105 5643 43 44 4820
	407656 410011 416640 453983 420842 429707 447232 417370 406672 448493	Homo sapiens mRNA; cDNA DKFZp434B PFTAIRE protein kinase 1 neuron-specific protein ESTs hypothetical protein MGC10986 matrix metalloproteinase 23B interleukin 10 receptor, alpha tryptophanyl-tRNA synthetase major histocompatibility complex, class ESTs	2119 (AW747 AB020641 BE262478 H94997 Al083668 W76631 AW499834 T28651 M26041 Al524124	Hs.12549 986 Hs.3744: Hs.57856 Hs.13406 Hs.16450 Hs.50601 Hs.211819 Hs.327 Hs.374466 Hs.198253 Hs.270307	3 4.8 4.8 4.8 4.8 4.8 4.8 4.8 4.8 4.8 4.8	1436 5894 148 4893 406 407 5096 1019 5576 4476 8286 1485 5929 2606 6738 3905 7820 1105 5643 43 44 4820 4006 7903
50	407656 410011 416640 453983 420842 429707 447232 417370 406672 448493 445302	Homo sapiens mRNA; cDNA DKFZp434B PFTAIRE protein kinase 1 neuron-specific protein ESTs hypothetical protein MGC10986 matrix metalloproteinase 23B interleukin 10 receptor, alpha tryptophanyl-tRNA synthetiase major histocompatibility complex, class ESTs hypothetical protein FLJ10675	2119 (AW747 AB020641 BE262478 H94997 Al083668 -W76631 AW499834 T28651 M26041 Al524124 AK001537	Hs.12549 986 Hs.3744; Hs.57856 Hs.13406 Hs.16450 Hs.50601 Hs.211819 Hs.327 Hs.374466 Hs.198253 Hs.270307 Hs.12488	3 4.8 4.8 4.8 4.8 4.8 4.8 4.8 4.8 4.8 4.8	1436 5894 148 4893 406 407 5096 1019 5576 4476 8286 1485 5929 2606 6738 3905 7820 1105 5643 43 44 4820 4006 7903 3757 3758 7699
50	407656 410011 416640 453983 420842 429707 447232 417370 406672 448493 445302 451598	Homo saplens mRNA; cDNA DKFZp434B PFTAIRE protein kinase 1 neuron-specific protein ESTs hypothetical protein MGC10986 matrix metalloproteinase 23B interleukin 10 receptor, alpha tryptophanyl-tRNA synthetase major histocompatibility complex, class ESTs hypothetical protein FLJ10675 ESTs	2119 (AW747 AB020641 BE262478 H94997 Al083668 -W76631 AW499834 T28651 M26041 Al524124 AK001537 N29102	Hs.12549 986 Hs.3744; Hs.57856 Hs.13406 Hs.16450 Hs.50601 Hs.211819 Hs.327 Hs.374466 Hs.270307 Hs.12488 Hs.79658	3 4.8 4.8 4.8 4.8 4.8 4.8 4.8 4.8 4.8 4.7 4.7	1436 5894 148 4893 406 407 5096 1019 5576 4476 8286 1485 5929 2606 6738 3905 7820 1105 5843 43 44 4820 4006 7903 3757 3758 7699 4241 8093
50 55	407656 410011 416640 453983 420842 429707 447232 417370 406672 448493 4451598 434629	Homo saplens mRNA; cDNA DKFZp434B PFTAIRE protein kinase 1 neuron-specific protein ESTs hypothetical protein MGC10986 matrix metalloproteinase 23B interleukin 10 receptor, alpha tryptophanyl-tRNA synthetase major histocompatibility complex, class ESTs hypothetical protein FLJ10675 ESTs glioma-amplified sequence-41	2119 (AW747 AB020641 BE262478 H94997 A1083668 W76631 AW499834 T28651 M26041 A16041 AK001537 N29102 AA789081	Hs.12549 986 Hs.3744: Hs.57856 Hs.13406 Hs.16450 Hs.50601 Hs.211819 Hs.327 Hs.327 Hs.374466 Hs.198253 Hs.270307 Hs.12488 Hs.79658 Hs.4029	3 4.8 4.8 4.8 4.8 4.8 4.8 4.8 4.8 4.7 4.7	1436 5894 148 4893 406 407 5096 1019 5576 4476 8286 1485 5929 2606 6738 3905 7820 1105 5643 43 44 4820 4006 7903 3757 3758 7699 4241 8093 3064 7090
50 55	407656 410011 416640 453983 420842 429707 447232 417370 406672 448493 445302 451598	Homo sapiens mRNA; cDNA DKFZp434B PFTAIRE protein kinase 1 neuron-specific protein ESTs hypothetical protein MGC10986 matrix metalloproteinase 23B interleukin 10 receptor, alpha tryptophanyl-tRNA synthetase major histocompatibility complex, class ESTs hypothetical protein FLJ10675 ESTs glioma-amplified sequence-41 ESTs	2119 (AW747 AB020641 BE262478 H94997 AI083668 W76631 AW499834 T28651 M26041 AI524124 AK001537 N29102 AA789081 AA306090	Hs.12549 986 Hs.3744: Hs.57856 Hs.13406 Hs.16450 Hs.50601 Hs.211819 Hs.327 Hs.327 Hs.374466 Hs.198253 Hs.270307 Hs.12488 Hs.79658 Hs.4029 Hs.345588	3 4.8 4.8 4.8 4.8 4.8 4.8 4.8 4.8 4.7 4.7 4.7 4.7	1436 5894 148 4893 406 407 5096 1019 5576 4476 8286 1485 5929 2606 6738 3905 7820 1105 5643 43 44 4820 4006 7903 3757 3758 7699 4241 8093 3064 7090 3378 7361
50	407656 410011 416640 453983 420842 429707 447232 417370 406672 448493 445302 451598 434629 439130	Homo saplens mRNA; cDNA DKFZp434B PFTAIRE protein kinase 1 neuron-specific protein ESTs hypothetical protein MGC10986 matrix metalloproteinase 23B interleukin 10 receptor, alpha tryptophanyl-tRNA synthetase major histocompatibility complex, class ESTs hypothetical protein FLJ10675 ESTs glioma-amplified sequence-41 ESTs C-Myc target JPO1	2119 (AW747 AB020641 BE262478 H94997 Al083668 -W76631 AW499834 T28651 M26041 AI524124 AK001537 N29102 AA789081 AA366090 BE614387	Hs.12549 986 Hs.3744; Hs.57856 Hs.13406 Hs.16450 Hs.50601 Hs.211819 Hs.372466 Hs.198253 Hs.270307 Hs.12488 Hs.79658 Hs.4029 Hs.345588 Hs.333893	3 4.8 4.8 4.8 4.8 4.8 4.8 4.8 4.8 4.7 4.7 4.7 4.7	1436 5894 148 4893 406 407 5096 1019 5576 4476 8286 1485 5929 2606 6738 3905 7820 1105 5643 43 44 4820 4006 7903 3757 3758 7699 4241 8093 3064 7090 3378 7361 3611 7578
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50 55	407656 410011 416640 453983 420842 429707 447232 417370 406672 448493 445302 451598 434629 439130 443247 432481	Homo saplens mRNA; cDNA DKFZp434B PFTAIRE protein kinase 1 neuron-specific protein ESTs hypothetical protein MGC10986 matrix metalloproteinase 23B interleukin 10 receptor, alpha tryptophanyl-tRNA synthetiase major histocompatibility complex, class ESTs hypothetical protein FLJ10675 ESTs glioma-amplified sequence-41 ESTs c-Myc target JPO1 intron of collagen, type XI, alpha 1	2119 (AW747 AB020641 BE262478 H94997 Al083668 -W76631 AW499834 T28651 M26041 AI524124 AK001537 N29102 AA789081 AA366090 BE614387	Hs.12549 986 Hs.3744; Hs.57856 Hs.13406 Hs.16450 Hs.50601 Hs.211819 Hs.372466 Hs.198253 Hs.270307 Hs.12488 Hs.79658 Hs.4029 Hs.345588 Hs.333893	3 4.8 4.8 4.8 4.8 4.8 4.8 4.8 4.8 4.7 4.7 4.7 4.7 4.7 4.7	1436 5894 148 4893 406 407 5096 1019 5576 4476 8286 1485 5929 2606 6738 3905 7820 1105 5643 43 44 4820 4006 7903 3757 3758 7699 4241 8093 3064 7090 3378 7361 3611 7578 2876 6938 1081 5622
50 55 60	407656 410011 416640 453983 420842 429707 447232 417370 406672 448493 445302 451598 434629 439130 443247 432481 417115	Homo saplens mRNA; cDNA DKFZp434B PFTAIRE protein kinase 1 neuron-specific protein ESTs hypothetical protein MGC10986 matrix metalloproteinase 23B interleukin 10 receptor, alpha tryptophanyl-tRNA synthetase major histocompatibility complex, class ESTs hypothetical protein FLJ10675 ESTs glioma-amplified sequence-41 ESTs c-Myc target JPO1 intron of collagen, type XI, alpha 1 small nuclear ribonucleoprotein polypep	2119 (AW747 AB020641 BE262478 H94997 A1083668 -W76631 AW499834 T28651 M26041 A1524124 AK001537 N29102 AA789081 AA306090 BE614387 AW451645 AW952792	Hs.12549 986 Hs.3744: Hs.57856 Hs.13406 Hs.16450 Hs.50601 Hs.211819 Hs.327 Hs.374466 Hs.198253 Hs.270307 Hs.12488 Hs.79658 Hs.345588 Hs.333893 Hs.151504 Hs.333893 Hs.151504 Hs.335934	3 4.8 4.8 4.8 4.8 4.8 4.8 4.8 4.8 4.7 4.7 4.7 4.7 4.7 4.7 4.7	1436 5894 148 4893 406 407 5096 1019 5576 4476 8286 1485 5929 2806 6738 3905 7820 1105 5643 43 44 4820 4806 7903 3757 3758 7699 4241 8093 3864 7090 3378 7361 3811 7578 2876 6938 1881 5822 686 607 5251
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50 55 60	407656 410011 416640 453983 420842 429707 447232 417370 406672 448493 445302 451598 434629 439130 443247 432481 41715 412564 429139	Homo sapiens mRNA; cDNA DKFZp434B PFTAIRE protein kinase 1 neuron-specific protein ESTs hypothetical protein MGC10986 matrix metalloproteinase 23B interleukin 10 receptor, alpha tryptophanyl-tRNA synthetase major histocompatibility complex, class ESTs hypothetical protein FLJ10675 ESTs glioma-amplified sequence-41 ESTs c-Myc target JPO1 intron of collagen, type XI, alpha 1 small nuclear ribonucleoprotein polypep cardiac ankyrin repeat protein ESTs nerve growth factor receptor (TNFR supe	2119 (AW747 AB020641 BE262478 H94997 Al083668 -W76631 AW499834 T28651 M26041 AI524124 AK001537 N29102 AA789081 AA30690 BE614387 AW451645 AW952792 XB3703 F09092 NM_002507	Hs.12549 986 Hs.3744; Hs.57856 Hs.13406 Hs.16450 Hs.50601 Hs.211819 Hs.327 Hs.374466 Hs.198253 Hs.270307 Hs.12488 Hs.79658 Hs.79658 Hs.333893 Hs.151504 Hs.334612 Hs.335934 Hs.66087	3 4.8 4.8 4.8 4.8 4.8 4.8 4.8 4.8 4.8 4.7 4.7 4.7 4.7 4.7 4.7 4.7 4.7 4.7 4.7	1436 5894 148 4893 406 407 5096 1019 5576 4476 8286 1485 5929 2606 6738 3905 7820 1105 5643 43 44 4820 4006 7903 3757 3758 7699 4241 8093 3064 7090 3378 7361 3611 7578 2876 6938 1081 5622 606 607 5251 2517 6675 2007 2008 6303
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5055606570	407656 410011 416640 453983 420842 429707 447232 417370 406672 448493 445302 451598 434629 439130 443247 43247 432481 417115 412564 429139 424829 424028 432527 449595 454071 428977 424263 412939 410342 433513 452613 427613 427613 427613 427613 427613 433513 452613 427613 427613 433513 437613 437	Homo sapiens mRNA; cDNA DKFZp434B PFTAIRE protein kinase 1 neuron-specific protein ESTs hypothetical protein MGC10986 matrix metalloproteinase 23B interleukin 10 receptor, alpha typtophanyl-tRNA synthetase major histocompatibility complex, class ESTs hypothetical protein FLJ10675 ESTs SSTs glioma-amplified sequence-41 ESTs c-Myc target JPO1 intron of collagen, type XI, alpha 1 small nuclear ribonucleoprotein polypep cardiac ankyrin repeat protein ESTs nerve growth factor receptor (TNFR supe Homo sapiens cDNA FLJ20653 fis, clone adenosine A2b receptor ESTs, Weakly similiar to T17227 hypothet ESTs ESTs ESTs ESTs ESTs ESTs ESTs ESTs	2119 (AW747 AB020641 BE262478 H94997 AI083668 -W76631 AW499834 T28651 M26041 AI524124 AK001537 N29102 AA789081 AA306090 BE614387 AW451645 AW952792 XB3703 F09092 NM_002507 KW19744 NM_000676 AW473675 AW975028 AW293799 AI041793 AK001404 M77640 AW7640 AW764	Hs.12549 986 Hs.3744; Hs.57856 Hs.13406 Hs.16450 Hs.50601 Hs.2011819 Hs.327 Hs.374466 Hs.198253 Hs.270307 Hs.12488 Hs.4029 Hs.34558 Hs.4029 Hs.34558 Hs.4029 Hs.34568 Hs.4029 Hs.34568 Hs.333893 Hs.151504 Hs.3367649 Hs.1827 Hs.180059 Hs.4 57743 Hs.167569 Hs.197564 Hs.255238 Hs.42502 Hs.194698 Hs.1757 Hs.75069 Hs.743 Hs.171437 Hs.23459 Hs.3369171	3 4.8 4.8 4.8 4.8 4.8 4.8 4.8 4.7 4.7 4.7 4.7 4.7 4.7 4.7 4.7 4.7 4.7	1436 5894 148 4893 406 407 5096 1019 5576 4476 8286 1485 5929 2806 6738 3905 7820 1105 5643 43 44 4820 4006 7903 3757 3758 7699 4241 8093 3064 7090 3378 7361 3611 7578 2876 6938 1081 5822 606 607 5251 2517 6675 2007 2008 6303 2354 6548 226 227 4959 3446 7428 2883 6944 4098 7979 4487 8295 2496 6659 1925 1926 6246 657 5292 453 5129 2985 7024 4337 8171 2381 6569 4394 8220 2753 2754 6843
505560657075	407656 410011 416640 453983 420842 429707 447232 417370 406672 448493 445302 451598 434629 439130 443247 432481 417115 412564 429139 424829 427647 408482 440028 435277 449595 454071 428977 424263 412339 410339 410339 410342 433513 452613 427876 453139 4331124 406636	Homo saplens mRNA; cDNA DKFZp434B PFTAIRE protein kinase 1 neuron-specific protein ESTs hypothetical protein MGC10986 matrix metalloproteinase 23B interleukin 10 receptor, alpha tryptophanyl-tRNA synthetase major histocompatibility complex, class ESTs hypothetical protein FLJ10675 ESTs glioma-amplified sequence-41 ESTs c-Myc target JPO1 intron of collagen, type XI, alpha 1 small nuclear ribonucleoprotein polypep cardiac ankyrin repeat protein ESTs nerve growth factor receptor (TNFR supe Homo saplens cDNA FLJ20653 fis, clone adenosine A2b receptor ESTs, Weakly similar to T17227 hypothet ESTs ESTs ESTs ESTs cyclin B2 L1 cell adhesion molecule (hydrocephalu eukaryotic translation elongation facto Fc fragment of IgE, high affinity I, re ESTs ESTs ESTs ESTs ESTs ESTs ESTs ESTs	2119 (AW747 AB020641 BE262478 H94997 AI083668 -W76631 AW499834 T28651 M26041 AI524124 AK001537 N29102 AA789081 AA306090 BE614387 AW451645 AW952792 X83703 F09092 NM_002507 KW_002507 AW451645 AW952792 AW451645 AW952792 AW19744 NM_000676 AW473675 AW975028 AW293799 AI041793 AK001404 M77640 AW411491 R31350 AI566356 AA461599 AI494221 S24G AA33062 AF284221 I L12064	Hs.12549 986 Hs.3744; Hs.57856 Hs.13406 Hs.16450 Hs.50601 Hs.211819 Hs.327 Hs.374466 Hs.198253 Hs.270307 Hs.12488 Hs.4029 Hs.345588 Hs.4029 Hs.345588 Hs.33893 Hs.3515934 Hs.355934 Hs.366087 Hs.355934 Hs.1757 Hs.180059 Hs.4 5743 Hs.1757 Hs.180059 Hs.4 5743 Hs.1757 Hs.75069 Hs.42502 Hs.194698 Hs.1757 Hs.75069 Hs.743 Hs.1757 Hs.75069 Hs.743 Hs.171437 Hs.23459 Hs.369171 O Hs.348805 Hs.59506	3 4.8 4.8 4.8 4.8 4.8 4.8 4.8 4.7 4.7 4.7 4.7 4.7 4.7 4.7 4.7 4.7 4.7	1436 5894 148 4893 406 407 5096 1406 407 5096 1407 5096 1416 8286 1485 5929 2806 6738 3905 7820 1105 5643 43 44 4820 4006 7903 3757 3758 7699 4241 8093 3064 7090 3378 7361 3811 7578 2876 6938 1081 5622 606 607 5251 2517 6675 2007 2008 6303 2354 6548 226 227 4959 3446 7428 2883 6944 4098 7979 4487 8295 2496 6659 1925 1926 6246 657 5292 453 5129 2985 7024 4337 8171 2381 6569 4394 8220 2753 2754 6843 32 33 4814
505560657075	407656 410011 416640 453983 420842 429707 447232 417370 406672 448493 445302 451598 434629 439130 43247 432481 41715 412564 429139 424829 427647 408482 440028 432527 449595 454071 428977 42463 412939 410342 433513 427876 453139 431124 406636 456181	Homo saplens mRNA; cDNA DKFZp434B PFTAIRE protein kinase 1 neuron-specific protein ESTs hypothetical protein MGC10986 matrix metalloproteinase 23B interleukin 10 receptor, alpha tryptophanyl-tRNA synthetase major histocompatibility complex, class ESTs hypothetical protein FLJ10675 ESTs glioma-amplified sequence-41 ESTs c-Myc target JPO1 intron of collagen, type XI, alpha 1 small nuclear ribonucleoprotein polypep cardiac ankyrin repeat protein ESTs nerve growth factor receptor (TNFR supe Homo saplens cDNA FLJ20653 fis, clone adenosine A2b receptor ESTs, Weakly similar to T17227 hypothet ESTs ESTs ESTs ESTs ESTs ESTs ESTs ESTs	2119 (AW747 AB020641 BE262478 H94997 AI083668 -W76631 AW499834 T28651 M26041 AI524124 AK001537 N29102 AA789081 AA306090 BE614387 AW451645 AW952792 XB3703 F09092 NM_002507 K W19744 NM_000676 AW473675 AW975028 AW975028 AW975028 AW975028 AW141491 R31350 AI566356 AA461599 AI494291 234G AA33062 AF284221 L12064 L136463	Hs.12549 986 Hs.3744; Hs.57856 Hs.13406 Hs.16450 Hs.50601 Hs.211819 Hs.327 Hs.374466 Hs.198253 Hs.270307 Hs.12488 Hs.4029 Hs.345588 Hs.4029 Hs.345588 Hs.333893 Hs.151504 Hs.33612 Hs.355934 Hs.366087 Hs.1 827 Hs.180059 Hs.345743 Hs.367649 Hs.102754 Hs.255238 Hs.1757 Hs.175069 Hs.75769 Hs.75069 Hs.743 Hs.375069 Hs.757 Hs.75069 Hs.757 Hs.75069 Hs.743	3 4.8 4.8 4.8 4.8 4.8 4.8 4.7 4.7 4.7 4.7 4.7 4.7 4.7 4.7 4.7 4.7	1436 5894 148 4893 406 407 5096 1019 5576 4476 8286 1485 5929 2806 6738 3905 7820 1105 5643 43 44 4820 4006 7903 3757 3758 7699 4241 8093 3064 7090 3378 7361 3611 7578 2876 6938 1081 5622 606 607 5251 2517 6675 2007 2008 6303 2354 6548 226 227 4959 3446 7428 2883 6944 4098 7979 4487 8295 2496 6659 1925 1926 6246 657 5292 4453 5129 2985 7024 4337 8171 2381 6569 4394 8220 2753 2754 6843 32 33 4814 4516 4517 8321
505560657075	407656 410011 416640 453983 420842 429707 447232 417370 406672 448493 445302 451598 439130 443247 439130 443247 439130 443247 439139 424829 427647 408482 440028 43955 454071 42897 424829 410342 43955 454071 42877 449595 454071 42877 449595 454071 42877 449595 454071 42877 449595 454071 42877 449595 454071 42877 449595 454071 42877 449595 454071 45613 45613 45613 456181 408209	Homo saplens mRNA; cDNA DKFZp4348 PFTAIRE protein kinase 1 neuron-specific protein ESTs hypothetical protein MGC10986 matrix metalloproteinase 238 interleukin 10 receptor, alpha typtophanyl-tRNA synthetase major histocompatibility complex, class ESTs hypothetical protein FLJ10675 ESTs glioma-amplified sequence-41 ESTs c-Myc target JPO1 intron of collagen, type XI, alpha 1 small nuclear ribonucleoprotein polypep cardiac ankyrin repeat protein ESTs nerve growth factor receptor (TNFR supe Homo saplens cDNA FLJ20653 fis, clone adenosine A2b receptor ESTs, Weakly similar to T17227 hypothet ESTs ESTs ESTs ESTs ESTs ESTs ESTs ESTs	2119 (AW747 AB020641 BE262478 H94997 Al083668 -W76631 AW499834 T28651 M26041 AI524124 AK001537 N29102 AA789081 AA306090 BE614387 AW951645 AW952792 XB3703 F09092 NM_002507 KW19744 NM_000676 AW473675 AW975099 Al041793 AK001404 M77640 AW7640	Hs.12549 986 Hs.3744: Hs.57856 Hs.13406 Hs.16450 Hs.50601 Hs.2011819 Hs.327 Hs.374466 Hs.198253 Hs.270307 Hs.12488 Hs.79658 Hs.4029 Hs.345588 Hs.4029 Hs.345588 Hs.40505 Hs.337649 Hs.367649 Hs.186059 Hs.45743 Hs.1757 Hs.19658 Hs.42502 Hs.194698 Hs.42502 Hs.194698 Hs.42502 Hs.194698 Hs.42502 Hs.194698 Hs.1757 Hs.75069 Hs.743 Hs.171437 Hs.23459 Hs.348805 Hs.369171 Do Hs.348805 Hs.59506 Hs.1030 Hs.43697	3 4.8 4.8 4.8 4.8 4.8 4.8 4.7 4.7 4.7 4.7 4.7 4.7 4.7 4.7 4.7 4.7	1436 5894 148 4893 406 407 5096 1019 5576 4476 8286 1485 5929 2606 6738 3905 7820 1105 5643 43 44 4820 4006 7903 3757 3758 7699 4241 8093 3064 7090 3378 7361 3611 7578 2876 6938 1081 5622 606 607 5251 2517 6675 2007 2008 6303 2354 6548 226 227 4959 3446 7428 2883 6944 4098 7979 4487 8295 2496 6659 1925 1926 6246 657 5292 453 5129 2985 7024 4337 8171 2381 6569 4394 8220 2753 2754 6843 32 33 4814 4516 4517 8321 204 205 4944
50556065707580	407656 410011 416640 453983 420842 429707 447732 417370 406672 448493 445302 451598 434629 439130 443247 43247 432481 417115 412564 429139 424829 424028 434627 44028 434627 44028 43263 44028 433513 452613 427876 453139 431124 406636 456181 4068209 418452	Homo sapiens mRNA; cDNA DKFZp434B PFTAIRE protein kinase 1 neuron-specific protein ESTs hypothetical protein MGC10986 matrix metalloproteinase 23B interleukin 10 receptor, alpha hypophanyl-tRNA synthetase major histocompatibility complex, class ESTs hypothetical protein FLJ10675 ESTs SGIoma-amplified sequence-41 ESTs c-Myc target JPO1 intron of collagen, type XI, alpha 1 small nuclear ribonucleoprotein polypep cardiac ankyrin repeat protein ESTs nerve growth factor receptor (TNFR supe Homo sapiens cDNA FLJ20653 fis, clone adenosine A2b receptor ESTs, Weakly similar to T17227 hypothet ESTs ESTs ESTs ESTs ESTs ESTs ESTs ESTs	2119 (AW747 AB020641 BE262478 H94997 Al083668 -W76631 AW499834 T28651 M26041 AI524124 AK001537 N29102 AA789081 AA306090 BE614387 AW451645 AW952792 XB3703 F09092 NM_002507 K W19744 NM_000676 AW473675 AW975028 AW293799 Al041793 AK001404 M77640 AW71491 R31350 AI566356 AA461599 AI494291 234G AA33062 AF284221 L12064 L36463 NM_004454 BE379749	Hs.12549 986 Hs.3744; Hs.57856 Hs.13406 Hs.16450 Hs.50601 Hs.211819 Hs.327 Hs.374466 Hs.198253 Hs.270307 Hs.12488 Hs.4029 Hs.345588 Hs.4029 Hs.345588 Hs.4029 Hs.345588 Hs.333893 Hs.151504 Hs.355934 Hs.165087 Hs.180059 Hs.4 5743 Hs.167649 Hs.194698 Hs.1757 Hs.180759 Hs.194698 Hs.1757 Hs.255238 Hs.42502 Hs.194698 Hs.1757 Hs.255238 Hs.42502 Hs.194698 Hs.1757 Hs.369171 00 Hs.348805 Hs.59506 Hs.1030 Hs.4 3697 Hs.3697 Hs.85201	3 4.8 4.8 4.8 4.8 4.8 4.8 4.8 4.7 4.7 4.7 4.7 4.7 4.7 4.7 4.7 4.7 4.7	1436 5894 148 4893 406 407 5096 1019 5576 4476 8286 1485 5929 2606 6738 3905 7820 1105 5543 43 44 4820 4006 7903 3775 3758 7699 4241 8093 3064 7090 3378 7361 33611 7578 2876 6938 1081 5622 606 607 5251 2517 6675 2007 2008 6303 2354 6548 226 227 4959 3446 7428 2883 6944 4098 7979 4487 8295 2496 6659 1926 1926 6246 6657 5292 453 5129 2985 7024 4337 8171 2381 6569 4394 8220 2753 2754 6843 32 33 4814 4516 4517 8321 204 205 4944 1241 5744
505560657075	407656 410011 416640 453983 420842 429707 447232 417370 406672 448493 445302 451598 433629 439130 443247 432481 417115 412564 429139 424829 427647 408482 440028 432527 449595 454071 428977 424263 412564 44028 432527 449596 454071 428977 424263 412339 410342 433513 452613 427	Homo saplens mRNA; cDNA DKFZp434B PFTAIRE protein kinase 1 neuron-specific protein ESTs hypothetical protein MGC10986 matrix metalloproteinase 23B interleukin 10 receptor, alpha tryptophanyl-tRNA synthetase major histocompatibility complex, class ESTs hypothetical protein FLJ10675 ESTs glioma-amplified sequence-41 ESTs c-Myc target JPO1 intron of collagen, type XI, alpha 1 small nuclear ribonucleoprotein polypep cardiac ankyrin repeat protein ESTs nerve growth factor receptor (TNFR supe Homo saplens cDNA FLJ20653 fis, clone adenosine A2b receptor ESTs, Weakly similar to T17227 hypothet ESTs ESTs ESTs ESTs Cyclin B2 L1 cell adhesion molecule (hydrocephalu eukaryotic translation elongation facto Fc fragment of IgE, high affinity I, re ESTs ESTs ESTs ESTs ESTs ESTs ESTs ESTs	2119 (AW747 AB020641 BE262478 H94997 AI083668 -W76631 AW499834 T28651 M26041 AI524124 AK001537 N29102 AA789081 AA306090 BE614387 AW451645 AW952792 XB3703 F09092 NM_002507 KW19744 NM_000676 AW473675 AW975028 AW923799 AI041793 AK001404 M77640 AW411491 R31350 AI566356 AA461599 AI494291 234G AA33062 AF284221 1 L12064 L36463 NM_004454 BE379749 U50330	Hs.12549 986 Hs.3744; Hs.57856 Hs.13406 Hs.16450 Hs.50601 Hs.211819 Hs.327 Hs.374466 Hs.198253 Hs.270307 Hs.12488 Hs.4029 Hs.345588 Hs.4029 Hs.345588 Hs.4029 Hs.355934 Hs.151504 Hs.355934 Hs.151504 Hs.367649 Hs.18275 Hs.184698 Hs.1757 Hs.182059 Hs.45743 Hs.1757 Hs.185059 Hs.4575069 Hs.743 Hs.1757 Hs.75069 Hs.743 Hs.171437 Hs.23459 Hs.369171 O Hs.348805 Hs.59506 Hs.1030 Hs.1948805 Hs.59506 Hs.1030 Hs.18201 Hs.18201 Hs.18201 Hs.18201 Hs.18201	3 4.8 4.8 4.8 4.8 4.8 4.8 4.7 4.7 4.7 4.7 4.7 4.7 4.7 4.7 4.7 4.7	1436 5894 148 4893 406 407 5096 1019 5576 4476 8286 1485 5929 2806 6738 3905 7820 1105 5643 43 44 4820 4006 7903 3757 3758 7699 4241 8093 3064 7090 3378 7361 3611 7578 2876 6938 1081 5622 606 607 5251 2517 6675 2007 2008 6303 2354 6548 226 227 4959 3446 7428 2883 6944 4098 7979 4487 8295 2496 6659 1925 1926 6246 657 5292 453 5129 2985 7024 4337 8171 2381 6569 4394 8220 2753 2754 6843 32 33 4814 4516 4517 8321 204 205 4944 1241 5744 1376 1377 5848
50556065707580	407656 410011 416640 453983 420842 429707 447732 417370 406672 448493 445302 451598 434629 439130 443247 43247 432481 417115 412564 429139 424829 424028 434627 44028 434627 44028 43263 44028 433513 452613 427876 453139 431124 406636 456181 4068209 418452	Homo sapiens mRNA; cDNA DKFZp434B PFTAIRE protein kinase 1 neuron-specific protein ESTs hypothetical protein MGC10986 matrix metalloproteinase 23B interleukin 10 receptor, alpha hypophanyl-tRNA synthetase major histocompatibility complex, class ESTs hypothetical protein FLJ10675 ESTs SGIoma-amplified sequence-41 ESTs c-Myc target JPO1 intron of collagen, type XI, alpha 1 small nuclear ribonucleoprotein polypep cardiac ankyrin repeat protein ESTs nerve growth factor receptor (TNFR supe Homo sapiens cDNA FLJ20653 fis, clone adenosine A2b receptor ESTs, Weakly similar to T17227 hypothet ESTs ESTs ESTs ESTs ESTs ESTs ESTs ESTs	2119 (AW747 AB020641 BE262478 H94997 Al083668 -W76631 AW499834 T28651 M26041 AI524124 AK001537 N29102 AA789081 AA306090 BE614387 AW451645 AW952792 XB3703 F09092 NM_002507 K W19744 NM_000676 AW473675 AW975028 AW293799 Al041793 AK001404 M77640 AW71491 R31350 AI566356 AA461599 AI494291 234G AA33062 AF284221 L12064 L36463 NM_004454 BE379749	Hs.12549 986 Hs.3744; Hs.57856 Hs.13406 Hs.16450 Hs.50601 Hs.211819 Hs.327 Hs.374466 Hs.198253 Hs.270307 Hs.12488 Hs.4029 Hs.345588 Hs.4029 Hs.345588 Hs.4029 Hs.355934 Hs.151504 Hs.355934 Hs.151504 Hs.367649 Hs.18275 Hs.184698 Hs.1757 Hs.182059 Hs.45743 Hs.1757 Hs.185059 Hs.4575069 Hs.743 Hs.1757 Hs.75069 Hs.743 Hs.171437 Hs.23459 Hs.369171 O Hs.348805 Hs.59506 Hs.1030 Hs.1948805 Hs.59506 Hs.1030 Hs.18201 Hs.18201 Hs.18201 Hs.18201 Hs.18201	3 4.8 4.8 4.8 4.8 4.8 4.8 4.7 4.7 4.7 4.7 4.7 4.7 4.7 4.7 4.7 4.7	1436 5894 148 4893 406 407 5096 1019 5576 4476 8286 1485 5929 2606 6738 3905 7820 1105 5543 43 44 4820 4006 7903 3775 3758 7699 4241 8093 3064 7090 3378 7361 33611 7578 2876 6938 1081 5622 606 607 5251 2517 6675 2007 2008 6303 2354 6548 226 227 4959 3446 7428 2883 6944 4098 7979 4487 8295 2496 6659 1926 1926 6246 6657 5292 453 5129 2985 7024 4337 8171 2381 6569 4394 8220 2753 2754 6843 32 33 4814 4516 4517 8321 204 205 4944 1241 5744

	427585	collagen, type X, alpha 1 (Schmid metap	D31152	Hs.179729	4.6	2349 6543		
	438937	ESTs	AW952654	Hs.73964	4.5	3367 7350		
	433819	ESTs	AW511097	Hs.110069	4.5	3007 7042		
5	430223	nephroblastoma overexpressed gene	NM_002514	Hs.2 35935	4.5	2661 2662 6779		
)	449294	ESTs	A1651786	Hs.195045	4.5	4079 7961		
	419488	nucleophosmin/nucleoplasmin 3	AA316241	Hs.90691	4.5	1342 5822		
	409637	Homo sapiens mRNA; cDNA DKFZp434K				372 5069		
	417166	Paired box protein Pax-3	AA431323	Hs.42146	4.5	1088 5628		
10	410407 452402	carbonic anhydrase IX	X66839	Hs.63287	4.5	460 461 5135		
10	424223	peroxisome proliferative activated rece putative DNA/chromatin binding motif	AJ138530	Hs.22216	4.5	4327 8162		
	433212	ESTs	AJ243706	Hs.143323	4.5	1915 1916 6240		
	421251	enigma (LIM domain protein)	BE218049	Hs.121820	4.5	2956 7001	_	
	416700	cathepsin D (lysosomal asparty) proteas	Z28913 AW498958	Hs.102948	4.5	1521 5957	_	
15	452839	ribosomal protein L44	R96290	Hs.343475	4.5	1023 5579		
10	445875	Homo sapiens clone 24453 mRNA sequel	10023U	Hs.75874	4.4	4359 8189 3801 7731		
	425848	valyi-tRNA synthetase 2	BE242709	Hs.159637	4.4 4.4	2150 6402		
	451304	collagen, type XVI, alpha 1	M92642	Hs.26208	4.4	4224 4225 8081		
	435854	putative ankyrin-repeat containing prot	AJ278120	Hs.4996	4.4	3157 3158 7166		
20	413916	apolipoprotein C-II	N49813	Hs.75615	4.4	753 5367		
	440099	DKFZP564G202 protein	AL080058	Hs.6909	4.4	3453 3454 7434		
	427674	H28 histone family, member Q	NM_003528		4.4	2359 2360 6553		
	423811	homeo box C4	AW299598	Hs.50895	4.4	1854 6198		
0.5	453883	cofactor required for Sp1 transcription	Al638516	Hs.347524	4.3	4459 8273		
25	422515	multifunctional polypeptide similar to	AW500470	Hs.117950	4.3	1693 6079		
	442173	KIAA0144 gene product	N76101	Hs.8127	4.3	3552 7524		
	451763	hypothetical protein FLJ14220	AW294647	Hs.233634	4.3	4254 8103		
	448961	ESTs	A1610643	Hs.187285	4.3	4052 7937		
20	421815	membrane protein CH1	AW592146	Hs.108636	4.3	1598 6009		
30	421920	gamma-aminobutyric acid (GABA) receptor				1614 6022		
	451099	interleukin 13 receptor, alpha 2	R52795	Hs.25954	4.3	4212 8071		
	428865	BarH-like homeobox 1	BE544095	Hs.164960	4.3	2485 6651		
	413385	indoleamine-pyrrole 2,3 dioxygenase	M34455	Hs.840	4.3	710 711 5331		
35	421535	phosphoribosylformylglycinamidine synth		Hs.105478	4.2	1557 1558 5981		
55	417355 432691	endothelin receptor type B	D13168	Hs.82002	4.2	1100 1101 5640		
	435652	mitogen-activated protein kinase 7	U29725	Hs.3080	4.2	2897 2898 6956		
	419093	uncharacterized hypothalamus protein HB spinal cord-derived growth factor-8	A1804054	Hs.334370	4.2	3142 7154		
	441544	ESTs	AW300043	Hs.112885 Hs.127137	4.2	1304 5792		
40	437044	differentially expressed in Fanconi's a	AL035864	Hs.69517	4.2 4.2	3523 7496		
	419236	Homo sapiens cDNA FLJ11481 fis, clone			4.1	3233 7232 1321 5805		
	428242	leukemia inhibitory factor (cholinergic	H55709	Hs.2250	4.1	2411 6594		
	433570	ESTs, Weakly similar to S55916 ribosoma		Hs.109007	4.1	2988 7027		
	430838	hypothetical protein FLJ12015	N46664	Hs.169395	4.1	2733 6829		•
45	424291	ephrin-B1	AL120051	Hs.144700	4.1	1931 6249		
	448425	ESTs	Al500359	Hs:371249	4.1	4004 7901		
	426798	ESTs	AA385062	Hs.130260	4.1	2275 6487		
	432994	ESTs	AA573452	Hs.150941	4.1	2922 6976		
	442285	uncharacterized hypothalamus protein HT		Hs.374989	4.1	3554 7526		
50	403171	C2001472*:gi 5809678 gb AAB41848.2 (I			4.0	4710		
	457458	ESTs	AW972881	Hs.276507	4.0	4552 8352		
	451698	endothelin converting enzyme-like 1	Y16187	Hs.26880	3,9	4249 4250 8100		
	417437	Interferon regulatory factor 4	U52682	Hs.82132	3.9	1123 1124 5656		
	404815	ENSP00000251989*:DJ100N22.1 (NOVE	LEGF-		3.9	4761		
55	452319	transducin-like enhancer of split 1, ho	M99435	Hs.28935	3.7	4313 4314 8152		
	424326		NM_014479		3.7	1934 1935 6252		
	407178		AA195651	Hs.352312	3.6	118 4870		
	419762		Al608647	Hs.32374	3.5	1387 5855		
60	414477	amplified in osteosarcoma	U41635	Hs.76228	3.5	822 823 5425		
UU	412709	KIAA0027 protein	AL022327	Hs.74518	3.3	631 632 5269		•
	453665	ESTs, Weakly similar to SFRB_HUMAN S			3.1	4434 8253		
	429329 429921		AA456140	Hs.99235	3.1	2547 6699		
	406367	collagen, type XI, alpha 1 NM_022357:Homo sapiens putative metal	AA526911	Hs.82772	3.1	2620 6749		
65	400307	NW_022337.homo sapiens putative metal	Ю		3.1	4804		
0.5								
	TABLE 7B:							•
	Pkey:	Unique Eos probeset identifier num	her					
	CAT number						*	
70	Accession:	Genbank accession numbers						
. •								
	Pkey	CAT Number Accession						
	459702	539529_1 BG207209 BE166299 Al204	1995 BG19935	5 AW969908	AA528756 AV	W440776 RI044354		
~	414315	203914_2 AA494098 Z24878 F13654	AA494040					
75	418059	1164438_1 AA211586 F35799 F29720	AW937408 AV	V937387 AA2	11641			
	411962	2307710_1 AA099050 AA099526 T4773	33			•		
	456034	6855B6_1 AA136653 AA136656 AW45	0979 AA9843	58 AA809054	AW238038 A	A492073 BE168945		
	426413	372468_1 AW954494 AA377823 BG2	19617 BG1956	85 BG616269	A1022688			
0 Λ	406636	0_0 L12064 L12083 L12065 L12	1075 L12066 L	12085 L12072	2 L12082 L120	081 L12062 L12080		
80	TAR! =							
	TABLE 7C:	Hatana a seeka a a a a a						
	Pkey:	Unique number corresponding to a	Los probese	ī				
	Ref:	Sequence source. The 7 digit num The DNA	Dere in Inis Co	umn are Genl	oank Identifier	r (GI) numbers. "Dunh	nam i. et al." refers to the	publication entitled
85		sequence of human chromosome 2	O' Dunham I	of al. Mature	(1000) 400-4	20.405		
-5	Strand:	Indicates DNA strand from which ex	rons were see	. CI BL, NAIUTO Tictor	(1999) 402:4	ю з-4 35.		
			~・・ いっこ ひょうけん	indui.				

	Nt_position:	Indica						
	m	D-4	Channel	Ala				
	Pkey	Ref		Nt_position				
5	405001	6015406		104646-104819				
)	404977	3738341		43081-43229				
	403088	8954241		169894-170193,	170504-1708	06		
	400499	9796071		148495-148806				
	403593	6862650		62554-62712,69	449-69602			
^	400651	8117978	Minus	81488-81646				
0	401781	7249190	Minus	83215-83435,83	531-83656,83	740-83901,84	23	
	401780	7249190		28397-28617,28				
	403071	8954241		136688-137096				
	403081	8954241		155749-156048,	156142-1564	59		
	401203	9743387		172961-173056,				
.5	403087	8954241		169511-169795	170000-1705			
	406519	3962489		34617-34928				
	402621	9930950		130806-131036		-4		
	406387	9256180		116229-116371,	11/512-11/6) 1		
20	401797	6730720		6973-7118				
20	403903	7710671		101165-102597				
	403086	8954241		169170-169412				
	402992	7767907	Minus	42137-42515				
	401771	9966243	Plus	166897-167099				
	403074	8954241	Plus	143375-143561				
25	404030	7671252		149362-151749				
	405681	4544348		79420-79605				
	403857	7708910		2524-3408				
	403291	7230870		95177-95435				
	402994	2996643		4727-4969				
30	402855	9662953		59763-59909				
	403171	9838164		74502-74703				
	404815							
		5911819		64494-64691				
	406367	9256126	Minus	58313-58489				
35								
, ,	TABLE 8A							
	INDLE ON							
	Pkey:		Unique Eos probeset ide	alifor number				
	Gene name:	Unigene gene		ammer mumber				
						•		
IN .		Evamples Ass	rossian aumbas Caabaal					
10	Accession:		cession number, Genbani	accession number	per			
10	Accession: UniGene:	Unigene num	iber					
10	Accession:	Unigene num 95th percenti	iber le of soft tissue sarcoma /	Als divided by the		lle of normal s	oft lissue Als, where the 10th p	ercentile of normal lissue Al
10	Accession: UniGene: RATIO:	Unigene num 95th percenti subtracted fro	iber le of soft tissue sarcoma / om both the numerator an	Als divided by the denominator	50th percent		oft tissue Als, where the 10th pe	· ercentile of normal lissue Al
	Accession: UniGene:	Unigene num 95th percenti subtracted fro	iber le of soft tissue sarcoma /	Als divided by the denominator	50th percent		oft tissue Als, where the 10th p	· ercentile of normal lissue Al
10 15	Accession: UniGene: RATIO: SEQ ID #:	Unigene num 95th percenti subtracted fro nucleic acto a	iber le of soft tissue sarcoma / om both the numerator an	Als divided by the denominator ovided on CD for	search purpos	ses	-	ercentile of normal tissue Al
	Accession: UniGene: RATIO: SEQ ID #:	Unigene num 95th percenti subtracted fro nucleic actd a Gene Name	ther le of soft tissue sarcoma / om both the numerator an and protein sequences pro	Als divided by the divided on CD for Accession	50th percent search purpor UniGene	RATIO	SEQID#	ercentile of normal lissue Al
	Accession: UniGene: RATIO: SEQ ID #: Pkey 413778	Unigene num 95th percenti subtracted fro nucleic actd a Gene Name myosin, light	ber le of soft tissue sarcoma / om both the numerator an and protein sequences pro	Als divided by the denominator ovided on CD for Accession AA090235	search purpos UniGene Hs.75535	RATIO 29.6	SEQ1D# 740 5356	ercentile of normal tissue Al
	Accession: UniGene: RATIO: SEQ ID #: Pkey 413778 409601	Unigene num 95th percenti subtracted fro nucleic actid a Gene Name myosin, light keratin 1 (epi	ther le of soft tissue sarcoma / om both the numerator an and protein sequences pro polypeptide 2, regulatory dermolytic hyperkeratosis	Als divided by the denominator ovided on CD for Accession AA090235 AF237621	uniGene Hs.75535 Hs.80828	RATIO 29.6 24.1	SEQ ID # 740 5356 365 366 5064	ercentile of normal tissue Af
15	Accession: UniGene: RATIO: SEQ ID #: Pkey 413778 409601 425545	Unigene num 95th percenti subtracted fro nucleic actid a Gene Name myosin, light keratin 1 (epi Homo sapien	ber le of soft tissue sarcoma / om both the numerator an and protein sequences propolypeptide 2, regulatory dermolytic hyperkeratosis, clone MGC12401, mR	Als divided by the didenominator ovided on CD for Accession AA090235 AF237621 NA, co N98529	UniGene Hs.75535 Hs.80828 Hs.158295	RATIO 29.6 24.1 21.9	SEQ ID # 740 5356 365 366 5064 2114 6379	ercentile of normal tissue Al
	Accession: UniGene: RATIO: SEQ ID #: Pkey 413778 409601 425545 417153	Unigene num 95th percenti subtracted fro nucleic acto a Gene Name myosin, light keratin 1 (epi Homo sapien collagen, type	iber le of soft tissue sarcoma / om both the numerator an and protein sequences pro polypeptide 2, regulatory dermolytic hyperkeratosis s, clone MGC:12401, mR a II, alpha 1 (primary ost	Als divided by the didenominator wided on CD for Accession AA090235 AF237621 NA, co N98529 X57010	uniGene Hs.75535 Hs.80828 Hs.158295 Hs.81343	RATIO 29.6 24.1 21.9 21.5	SEQ1D# 740 5356 365 366 5064 2114 6379 1084 1085 5625	ercentile of normal tissue Al
15	Accession: UniGene: RATIO: SEQ ID #: Pkey 413778 409601 425545 417153 426300	Unigene num 95th percenti subtracted from nucleic acrid a Gene Name myosin, light keratin 1 (epi Homo sapien collagen, typo delta-like hom	iber le of soft tissue sarcoma / m both the numerator an and protein sequences pro polypeptide 2, regulatory dermolytic hyperkeratosis s, clone MGC12401, mR a, ll, alpha 1 (primary ost nolog (Drosophila)	Als divided by the didenominator ovided on CD for Accession AA090235 AF237621 NA, co N98529	UniGene Hs.75535 Hs.80828 Hs.158295	RATIO 29.6 24.1 21.9	SEQ ID # 740 5356 365 366 5064 2114 6379	ercentile of normal tissue Al
15	Accession: UniGene: RATIO: SEQ ID #: Pkey 413778 409601 425545 417153	Unigene num 95th percenti subtracted from nucleic acrid a Gene Name myosin, light keratin 1 (epi Homo sapien collagen, typo delta-like hom	iber le of soft tissue sarcoma / om both the numerator an and protein sequences pro polypeptide 2, regulatory dermolytic hyperkeratosis s, clone MGC:12401, mR a II, alpha 1 (primary ost	Als divided by the didenominator wided on CD for Accession AA090235 AF237621 NA, co N98529 X57010	uniGene Hs.75535 Hs.80828 Hs.158295 Hs.81343	RATIO 29.6 24.1 21.9 21.5	SEQ ID # 740 5356 365 366 5064 2114 6379 1084 1085 5625 2196 2197 6437	ercentile of normal tissue Al
15	Accession: UniGene: RATIO: SEQ ID #: Pkey 413778 409601 425545 417153 426300	Unigene num 95th percenti subtracted fri nucleic actid a Gane Name myosin, light keratin 1 (epi Homo sapien collagen, typi detta-like hon cellular retino	iber le of soft tissue sarcoma / m both the numerator an and protein sequences pro polypeptide 2, regulatory dermolytic hyperkeratosis s, clone MGC12401, mR a, ll, alpha 1 (primary ost nolog (Drosophila)	Als divided by the didenominator evided on CD for Accession AA090235 AF237621 NA, co N98529 X57010 U15979 W29092	uniGene Hs.75535 Hs.80828 Hs.158295 Hs.81343 Hs.169228 Hs.346950	RATIO 29.6 24.1 21.9 21.5 20.7	SEQ ID # 740 5356 365 366 5064 2114 6379 1084 1085 5625 2196 2197 6437 3500 7475	ercentile of normal tissue Al
15 50	Accession: UniGene: RATIO: SEQ ID #: Pkey 413778 409601 425545 417153 426300 441134	Unigene num 95th percenti subtracted fri nucleic actd a Gene Name myosin, light keratin 1 (epi Homo sapien collagen, type detta-like hom cettular retino Homo sapien	iber le of soft tissue sarcoma / om both the numerator an and protein sequences pro polypeptide 2, regulatory dermolytic hyperkeratosis s, clone MGC 12401, mR a II, alpha 1 (primary ost nolog (Orosophila) iic acid-binding protein	Als divided by the didenominator vided on CD for Accession AA090235 AF237621 NA, co N98529 X57010 U15979 W29092 A111 BE616501	uniGene Hs.75535 Hs.80828 Hs.158295 Hs.81343 Hs.169228 Hs.346950 Hs.32343	RATIO 29.6 24.1 21.9 21.5 20.7 20.6 19.7	SEQ ID # 740 5356 365 366 5064 2114 6379 1084 1085 5625 2196 2197 6437 3500 7475 3402 7385	ercentile of normal tissue Al
15 50	Accession: UniGene: RATIO: SEQ ID #: Pkey 413778 409601 425545 417153 426300 441134 439496	Unigene num 95th percenti subtracted fri nucleic actd a Gene Name myosin, light keratin 1 (epi Homo sapien collagen, type detta-like hom cettular retino Homo sapien	iber le of soft tissue sarcoma / om both the numerator an and protein sequences pro polypeptide 2, regulatory dermolytic hyperkeratosis s, clone MGC 12401, mR a II, alpha 1 (primary ost molog (Drosophila) lic acid-binding protein s, Similar to RIKEN cDNA	Als divided by the didenominator wided on CD for Accession AA090235 AF237621 NA, co N98529 X57010 U15979 W29092 A111 BE616501 M57399	UniGene Hs.75535 Hs.80828 Hs.158295 Hs.81343 Hs.169228 Hs.346950 Hs.32343 Hs.44	RATIO 29.6 24.1 21.9 21.5 20.7 20.6 19.7 19.3	SEQ ID # 740 5356 365 366 5064 2114 6379 1084 1085 5625 2196 2197 6437 3500 7475 3402 7385 2748 2749 6840	ercentile of normal tissue Al
15	Accession: UniGene: RATIO: SEQ ID #: Pkey 413778 409601 425545 417153 426300 441134 439496 431103 426752	Unigene num 95th percenti subtracted for nucleic actid a Gene Name myosin, light keratin 1 (ept Homo sapien collagen, typ detta-like hon cettular retino Homo sapien pleiotrophin (titln	ber le of soft tissue sarcoma / m both the numerator an and protein sequences pro polypeptide 2, regulatory dermolytic hyperkeratosis s, clone MGC:12401, mR le il, alpha 1 (primary ost molog (Drosophila) lic acid-binding protein s, Similar to RIKEN cDNA heparin binding growth fa	Als divided by the didenominator wided on CD for Accession AA090235 AF237621 NA, co N98529 X57010 U15979 W29092 111 BE616501 M57399 X69490	uniGene Hs.75535 Hs.80828 Hs.158295 Hs.81343 Hs.169228 Hs.346950 Hs.3243 Hs.44 Hs.172004	RATIO 29.6 24.1 21.9 21.5 20.6 19.7 19.3 19.1	SEQ ID # 740 5356 365 366 5064 2114 6379 1084 1085 5625 2196 2197 6437 3500 7475 3402 7385 2748 2749 6840 2266 2267 6482	ercentile of normal tissue Al
15 50	Accession: UniGene: RATIO: SEQ ID #: Pkey 413778 409601 425545 417153 426300 441134 439496 431103 426752 412519	Unigene num 95th percenti subtracted for nucleic actit a Gene Name myosin, light keratin 1 (eph Homo sepien collagen, typ delta-like hon cettular retino Homo sapien pleiotrophin (titin troponin T1, a	iber le of soft tissue sarcoma / m both the numerator and and protein sequences pro polypeptide 2, regulatory dermolytic hyperkeratosis, s, clone MGC 12401, mR la II, alpha 1 (primary ost molog (Drosophila) ic acid-binding protein s, Similar to RIKEN cDNA heparin binding growth fa skeletal, slow	Als divided by the didenominator wided on CD for Accession AA090235 AF237621 NA, co N98529 X57010 U15979 W29092 111 BE616501 M57399 X69490 AA196241	uniGene Hs.75535 Hs.80828 Hs.158295 Hs.81434 Hs.169228 Hs.346950 Hs.32343 Hs.172004 Hs.73980	RATIO 29.6 24.1 21.9 21.5 20.7 20.6 19.7 19.3 19.1 18.6	SEQ ID # 740 5356 365 366 5064 2114 6379 1084 1085 5625 2196 2197 6437 3500 7475 3402 7385 2748 2749 6840 2266 2267 6482 598 5244	ercentile of normal tissue Al
15 50	Accession: UniGene: RATIO: SEQ ID #: Pkey 413778 409601 425545 417153 426300 441134 439496 431103 426752 412519 422424	Unigene num 95th percenti subtracted fro nucleic actid a Gene Name myosin, light keratin 1 (epi Homo sapien collagen, typi delta-like hon cettular retino Homo sapien pleiotrophin (tittu troponin T1, a prostate diffe	ber le of soft tissue sarcoma / m both the numerator an and protein sequences pro polypeptide 2, regulatory dermolytic hyperkeratosis s, clone MGC12401, mR a II, alpha 1 (primary ost molog (Orosophila) sic acid-binding protein s, Similar to RIKEN cDNA heparin binding growth fa skeletal, slow rentlation factor	Als divided by the didenominator avided on CD for Accession AA090235 AF237621 NA, co N98529 X57010 U15979 W29092 A 111 BE616501 M57399 X69490 AA196241 AJ186431.	uniGene Hs.75535 Hs.80828 Hs.158295 Hs.81343 Hs.169228 Hs.32343 Hs.44 Hs.772004 Hs.73980 Hs.296638	RATIO 29.6 24.1 21.9 21.5 20.7 20.6 19.7 19.3 19.1 18.6 17.4	SEQ ID # 740 5356 365 366 5064 2114 6379 1084 1085 5625 2196 2197 6437 3500 7475 3402 7385 2748 2749 6840 2266 2267 6482 598 5244 1681 6070	ercentile of normal tissue Al
15 50	Accession: UniGene: RATIO: SEQ ID #: Pkey 413778 409601 425545 417153 426300 441134 439496 431103 426752 412519 422424 452838	Unigene num 95th percenti subtracted for nucleic actd a Gene Name myosin, light keratin 1 (epl Homo sapien collagen, type detta-like hon cellular retino Homo sapien pleiotrophin (tith troponin T1, a prostate diffe preferentially	iber le of soft tissue sarcoma / om both the numerator an and protein sequences pro polypeptide 2, regulatory dermolytic hyperkeratosis s, clone MGC 12401, mR a II, alpha 1 (primary ost molog (Drosophila) ic acid-binding protein is, Similar to RiKEN cDNA heparin binding growth fa skeletal, slow rentlation factor expressed antigen in mel	Als divided by the didenominator wided on CD for Accession AA090235 AF237621 NA, co N98529 X57010 U15979 W29092 A111 BE616501 M57399 X69490 AA196241 A186431. U65011	uniGene Hs.75535 Hs.80828 Hs.158295 Hs.81343 Hs.169228 Hs.346950 Hs.32343 Hs.172004 Hs.73980 Hs.296638 Hs.30743	RATIO 29.6 24.1 21.5 20.7 20.6 19.7 19.3 19.1 18.6 17.4 16.9	SEQ ID # 740 5356 365 366 5064 2114 6379 1084 1085 5625 2196 2197 6437 3500 7475 3402 7385 2748 2749 6840 2266 2267 6482 598 5244 1881 6070 4357 4358 8188	ercentile of normal tissue Al
15 50	Accession: UniGene: RATIO: SEQ ID #: Pkey 413778 409601 425545 417153 426300 441134 439496 431103 426752 412519 422424 452838 406704	Unigene num 95th percenti subtracted for nucleic actid a Gene Name myosin, light keratin 1 (epl Homo sapien collagen, type detta-like hon celtular retino Homo sapien pleiotrophin (titin troponin T1, a prostate diffe preferentially myosin, heav	ber le of soft tissue sarcoma / m both the numerator an and protein sequences pro polypeptide 2, regulatory dermolytic hyperkeratosis s, clone MGC12401, mR a II, alpha 1 (primary ost molog (Orosophila) sic acid-binding protein s, Similar to RIKEN cDNA heparin binding growth fa skeletal, slow rentlation factor	Als divided by the didenominator wided on CD for Accession AA090235 AF237621 NA, co N98529 X57010 U15979 W29092 A111 BE616501 M57399 X69490 AA196241 A1186431 U655011 mu M21665	uniGene Hs.75535 Hs.80828 Hs.158295 Hs.81343 Hs.169228 Hs.346950 Hs.32343 Hs.172004 Hs.73980 Hs.296638 Hs.30743 Hs.929	RATIO 29.6 24.1 21.9 21.5 20.7 20.6 19.7 19.3 19.1 18.6 17.4 16.9 16.9	SEQ ID # 740 5356 365 366 5064 2114 6379 1084 1085 5625 2196 2197 6437 3500 7475 3402 7385 2748 2749 6840 2266 2267 6482 598 5244 1681 6070 4357 4358 8188 55 56 4826	ercentile of normal tissue Al
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15 50	Accession: UniGene: RATIO: SEQ ID #: Pkey 413778 409601 425545 417153 426300 441134 439496 431103 426752 412519 422424 452838 406704 400440 407013	Unigene num 95th percenti subtracted fro nucleic actid a Gene Name myosin, light keratin 1 (ept Homo sapien collagen, typ delta-like hon ceitular retino Homo sapien pleiotrophin (tith troponin T1, a prostate diffe preferentially myosin, heav nebulin gb:Human ne	ber le of soft tissue sarcoma / m both the numerator an and protein sequences pro polypeptide 2, regulatory dermolytic hyperkeratosis, s, clone MGC 12401, mR li, alpha 1 (primary ost nolog (Drosophila) sic acid-binding protein s, Similar to RIKEN cDNA heparin binding growth fa skeletal, slow rentlation factor expressed antigen in mel y polypeptide 7, cardiac n sbullin mRNA, partial cds	Als divided by the didenominator avided on CD for Accession AA090235 AF237621 NA, co N98529 X57010 U15979 W29092 A111 BE616501 M57399 X69490 AA196241 A186431. U65011 nu M21665 X83957 U35637	uniGene Hs.75535 Hs.80828 Hs.158295 Hs.81343 Hs.169228 Hs.346950 Hs.32343 Hs.42 Hs.73980 Hs.296638 Hs.30743 Hs.929 Hs.83870 Hs.83870 Hs.83870	RATIO 29.6 24.1 21.9 21.5 20.7 20.6 19.7 19.3 19.1 18.6 17.4 16.9 16.5 16.2	SEQ ID # 740 5356 365 366 5064 2114 6379 1084 1085 5625 2196 2197 6437 3500 7475 3402 7385 2748 2749 6840 2266 2267 6482 598 5244 1681 6070 4357 4358 8188 55 56 4826 524 25 4627 94 95 4851	ercentile of normal tissue Al
15 50	Accession: UniGene: RATIO: SEQ ID #: Pkey 413778 409601 425545 417153 426300 441134 439496 431103 426752 412519 422424 452838 406704 4007413 406687	Unigene num 95th percenti subtracted fro nucleic actid a mucleic actid a myosin, light keratin 1 (epi Homo sapien collagen, typo detta-like hom cellular retino Homo sapien pleiotrophin (tith troponin T1, a prostate diffe preferentially myosin, heav nebulin gb:Human ne matrix metalix me	iber le of soft tissue sarcoma // om both the numerator an and protein sequences pro polypeptide 2, regulatory dermolytic hyperkeratosis s, clone MGC 12401, mR a II, alpha 1 (primary ost nolog (Drosophila) icic acid-binding protein is, Similar to RiKEN cDNA heparin binding growth fa skeletal, slow rentlation factor expressed antigen in mel y polypeptide 7, cardiac n shulin mRNA, partial cds oproteinase 11 (stromelys	Als divided by the disconnection of the disconnecti	uniGene Hs.75535 Hs.80828 Hs.158295 Hs.81343 Hs.169228 Hs.346950 Hs.32343 Hs.44 Hs.172004 Hs.73980 Hs.296638 Hs.30743 Hs.83870 Hs.83870 Hs.83870 Hs.352054	RATIO 29.6 24.1 21.5 20.7 20.6 19.7 19.3 19.1 18.6 17.4 16.9 16.5 16.5 16.2 15.8	SEQ ID # 740 5356 365 366 5064 2114 6379 1084 1085 5625 2196 2197 6437 3500 7475 3402 7385 2748 2749 6840 2266 2267 6482 598 5244 1681 6070 4357 4358 8188 55 56 4826 24 25 4627 94 95 4851 49 50 4823	ercentile of normal tissue Al
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15 50 55 55 70	Accession: UniGene: RATIO: SEQ ID #: Pkey 413778 409601 425545 417153 426300 441134 439496 431103 426752 412519 422424 452838 406704 400440 407013 406687 424640 432874 414219 448731 453857 420783 417070 428305 429359 426600 417389 422069 417389 422069 417389 416373 413073 41	Unigene num 95th percenti subtracted for nucleic actd a Gene Name myosin, light keratin 1 (epl Homo sapien collagen, typr detta-like hon cettular etino Homo sapien pleiotrophin (titin troponin T1, a prostate diffe preferenilally myosin, heav nebulin gb:Human ne matrix metalli troponin C, si melanoma in troponin C, s	ber le of soft tissue sarcoma / m both the numerator and and protein sequences pro polypeptide 2, regulatory dermolytic hyperkeratosis s, clone MGC 12401, mR a II, alpha 1 (primary ost nolog (Drosophila) ic acld-binding protein s, Similar to RIKEN cDNA heparin binding growth fa skeletal, slow rentlation factor expressed antigen in mel y polypeptide 7, cardiac n abulin mRNA, partial cds oproteinase 11 (stronelys oproteinase 9 (gelatinase bow hibbitory activity tene from chromosome 1c senescence 1 (RIS1) oside-binding, soluble, 7 ng protein 1 oproteinase 14 (membran rowth factor inducible rite growth-promoting fact thonin) a XI, alpha 1 n mulated protein, 15 kDa y similar to S12658 cystei okinase, muscle	Als divided by the did denominator wided on CD for Accession AA090235 AF237621 NA, co N98529 X57010 U15979 W29092 A111 BE616501 M57399 A69490 AA196241 A186431 U65011 M21665 X83957 U35637 i M31126 J05070 X90568 M37984 W94322 W20010 AI522273 AL080235 Al659838 Z19077 AA446628 e-I W00482 NM_003378 b BE563085 b BE563085 b BE515051 AA448542	UniGene Hs.75535 Hs.80828 Hs.158295 Hs.81343 Hs.169228 Hs.346950 Hs.32343 Hs.44 Hs.172004 Hs.73980 Hs.296638 Hs.30743 Hs.929 Hs.83870 Hs.83870 Hs.83870 Hs.83870 Hs.75823 Hs.172004 Hs.75823 Hs.172004 Hs.75823 Hs.172004 Hs.75823 Hs.7582045 Hs.343603 Hs.875160 Hs.93557 Hs.833 Hs.75680 Hs.75160 Hs.278444	RATIO 29.6 24.1 21.9 21.5 20.7 20.6 19.7 19.3 19.1 18.6 17.4 16.9 16.5 16.2 15.7 15.1 15.0 14.8 14.7 14.5 14.4 14.3 13.9 13.5 13.5 13.5 12.9 12.8 12.7 12.4 12.4 12.4 12.3	SEQ ID # 740 5356 365 366 5064 2114 6379 1084 1085 6525 2196 2197 6437 3500 7475 3402 7385 2748 2749 6840 2266 2267 6482 598 5244 1681 6070 4357 4358 8188 55 56 4826 24 25 4627 94 95 4851 1986 1987 6289 132 133 4881 1718 1719 6099 2913 6968 789 5397 4030 7922 4449 4450 8266 1478 5924 1070 5614 2426 6607 2551 6702 2255 2256 6475 1109 5647 1635 1636 6037 1162 5685 1391 5859 695 5322 996 5559 671 5304 2317 6520	ercentile of normal tissue Al
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45 60 65 70 75	Accession: UniGene: RATIO: SEQ ID #: Pkey 413778 409601 425545 417153 426300 441134 439496 431103 426752 412519 422424 452838 406704 407013 406687 424687, 407245 422640 432874 414219 448731 453857 420783 417070 428305 429359 426600 417389 422069 417866 419875 413278 416373 413031 427335 42074	Unigene num 95th percenti subtracted for nucleic actd a Gene Name myosin, light keratin 1 (epi Homo sapien collagen, type detta-like hono cellular retino Homo sapien pleiotrophin (tith troponin T1, s prostate diffe preferentially myosin, heav nebulin gb:Human ne matrix metalli titin troponin C, si melanoma in ALL1-fused g ESTs Ras-induced lectin, galacte titin cartilage linki matrix metalli toponin C, si melanoma in ALL1-fused g ESTs Rs-induced lectin, galact titin cartilage linki matrix metalli toponin C, si melanoma in ALL1-fused g ESTs Rs-induced lectin, galact titin cartilage linki matrix metalli toponin C, si melanoma in ALL1-fused g ESTs scraple responented cartilage linki matrix metalli toponin C, si melanoma in ALL1-fused g ESTs scraple responented cartilage linki matrix metalli toponin C, si melanoma in ALL1-fused g ESTs scraple responented cartilage linki matrix metalli toponin C, si melanoma in ALL1-fused g ESTs scraple responented cartilage linki matrix metalli toponin C, si melanoma in ALL1-fused g ESTs scraple responented cartilage linki matrix metalli toponin C, si melanoma in ALL1-fused g ESTs scraple responented cartilage linki matrix metalli toponin C, si melanoma in ALL1-fused g ESTs scraple r	ber le of soft tissue sarcoma / m both the numerator and and protein sequences pro polypeptide 2, regulatory dermolytic hyperkeratosis s, clone MGC 12401, mR e II, alpha 1 (primary ost nolog (Drosophila) ic acld-binding protein s, Similar to RIKEN cDNA heparin binding growth fa skeletal, slow rentlation factor expressed antigen in mel y polypeptide 7, cardiac n ebulin mRNA, partial cds oproteinase 11 (stronelys oproteinase 9 (gelatinase to w hibbitory activity tene from chromosome 1c senescence 1 (RIS1) oside-binding, soluble, 7 ng protein 1 oproteinase 14 (membran rowth factor inducible rite growth-promoting fact thonin) a XI, alpha 1 n mulated protein, 15 kDa y similar to S12658 cystei okinase, muscle	Als divided by the disconnection of the disconnecti	UniGene Hs.75535 Hs.80828 Hs.158295 Hs.81343 Hs.169228 Hs.346950 Hs.32343 Hs.44 Hs.172004 Hs.73980 Hs.83870 Hs.83870 Hs.352054 Hs.151738 Hs.172004 Hs.75823 Hs.172004 Hs.75823 Hs.172004 Hs.75823 Hs.73179 Hs.35861 Hs.75823 Hs.172004 Hs.75823 Hs.75827 Hs.93557 Hs.93557 Hs.93557 Hs.75824 Hs.75160 Hs.75160 Hs.75160 Hs.75160 Hs.775160 Hs.77122	RATIO 29.6 24.1 21.9 21.5 20.7 20.6 19.7 19.3 19.1 16.5 16.2 15.8 15.7 15.1 14.9 14.8 14.7 14.4 14.3 13.9 13.5 13.3 12.9 12.4 12.4 12.4 12.4 12.4 12.1 11.9	SEQ ID # 740 5356 365 366 5064 2114 6379 1084 1085 5625 2196 2197 6437 3500 7475 3402 7385 2748 2749 6840 2266 2267 6482 598 5244 1681 6070 4357 4358 8188 55 56 4826 24 25 4627 94 95 4851 49 50 4823 1986 1987 6289 132 133 4881 1718 1719 6099 2913 6968 789 5397 4030 7922 4449 4450 8266 1478 5924 1070 5614 2426 6607 2551 6702 2255 2256 6475 1109 5647 1635 1636 6037 1162 5685 1391 5689 695 5322 996 5559 671 5304 2317 6520 1588 6000 3464 7443	ercentile of normal tissue Al
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	422106	Fc fragment of IgG binding protein	D84239	Hs.111732	11.8	1646 1647 6044
	450098	hypothetical protein FLJ21080	W27249	Hs.8109	11.7	4134 8009
	422871	collagen, type XI, alpha 2	AL031228	Hs.121509	11.7	1753 1754 6123
_	417308	KIAAD101 gene product	H60720	Hs.81892	11.7	1094 5634
5	438549	trinucleotide repeat containing 3	BE386801	Hs.21858	11.6	3331 7320
	448719	trinucleotide repeat containing 3	AA033627	Hs.21858	11.5	4028 7920
	405001	interleukin enhancer binding factor 1			11.3	4767
	452620	ESTs	AA436504	Hs.119286	11.3	4338 8172
10	413554	secretogranin II (chromogranin C)	AA319146	Hs.75426	11.2	729 5346
10	431553	cartilage linking protein 1	X78075	Hs.2799	11.2	2792 6874
	418399	hypothetical protein FLJ12442	AF131781	Hs.84753	11.2	1232 1233 5738
	417515	ataxia-telangiectasia group D-associate	L24203	Hs.82237	11.1	1129 1130 5659
	431211	gap junction protein, beta.2, 26kD (con	M86849	Hs.323733	10.9	2762 2763 6850
1.5	422599	non-metastatic cells 1, protein (NM23A)	BE387202	Hs.118638	10.8	1710 6092
15	428411	ESTs	AW291464	Hs.10338	10.8	2439 6617
	425247	matrix metalloproteinase 11 (stromelysi	NM_005940	Hs.1 55324	10.7	2072 2073 6351
	420208	silver (mouse homolog) like	BE276055	Hs.95972	10.7	1431 5891
	419741	ubiquitin carrier protein E2-C	NM_007019		10.6	1379 1380 5850
20	431360	loricrin	NM_000427	Hs.2 51680	10.6	2776 2777 6861
20	425308	receptor tyrosine kinase-like orphan re	M97639	Hs.155585	10.6	2087 2088 6362
	425154	collagen, type IX, alpha 1	NM_001851	Hs.1 54850	10.5	2055 2056 6339
	404977	Insulin-like growth factor 2 (somatomed			10.4	4766
	440099	DKFZP564G202 protein	AL080058	Hs.6909	10.4	3453 3454 7434
25	428311	tryptophan 2,3-dioxygenase	NM_005651		10.3	2429 2430 6609
25	434060	hypothetical protein PRO1489	AA744902	Hs.197922	10.3	3025 7058
	410621	titin	AA194329	Hs.172004	10.1	481 5149
	428398	ESTs	Al249368	Hs.98558	10.1	2435 6614
	447377	transcription factor AP-2 alpha	X77343	Hs.334334	10.1	3920 3921 7831
20	419550	KIAA0128 protein; septin 2	D50918	Hs.90998	10.0	1348 1349 5827
30	429294	Homo saplens cDNA: FLJ22463 fis, clone		Hs.198793	10.0	2540 6693
	412636	desmoplakin (DPI, DPII)	NM_004415		10.0	618 619 5259
	427666	calmodulin-like skin protein (CLSP)	AJ791495	Hs.180142	9.9	2356 6550
	419762	ESTs	AI608647	Hs.32374	9.9	1387 5855
25	449048	similar to S68401 (cattle) glucose indu	Z45051	Hs.22920	9.8	4061 7945
35	401781	Target Exon			9.8	4662
	405443	Target Exon			9.8	4782
	428248	ESTs	Al126772	Hs.40479	9.7	2414 6596
	450375	a disintegrin and metalloproteinase dom	AA009647	Hs.352537	9.7	4159 8028
40	409169	(clone PWHLC2-24) myosin light chain 2		Hs.50889	9.7	316 5029
40	416658	fibrillin 2 (congenita) contractural ar	U03272	Hs.79432	9.6	1020 1021 5577
	439180	v-erb-b2 avian erythroblastic leukemia	Al393742	Hs.199067	9.6	3380 7363
	417333	bromodomain and PHD finger containing,		Hs.173179	9.6	1096 5636
	415166	carboxypepiidase Z	NM_003652	HS.7 8068	9.6	913 914 5491
45	403088 418391	NM_003319*:Homo sapiens titin (TTN), m		U= 0.4022	9.5	4707
73	427863	troponin I, skeletal, slow	NM_003281		9.5	1228 1229 5736
	440704	MLL septin-like fusion	AF189712	Hs.181002	9.5	2378 2379 6567
		insulin-like growth factor binding prot	M69241	Hs.162 Hs.22410	9.4 9.4	3482 3483 7459
	A1A02A	aham70atis ri Stratagaga naumoniihaliu				769 5379
	414024 417930	gb:zm79g08.r1 Stratagene neuroepitheliu				11C0 EC01
50	417930	Homo sapiens mRNA for KIAA1870 prote	in, H81136	Hs.334604	9.4	1169 5691
50	417930 424825	Homo sapiens mRNA for KIAA1870 prote procollagen-lysine, 2-oxoglutarate 5-di	in, H81136 AF207069	Hs.334604 Hs.153357	9.4 9.4	2005 2006 6302
50	417930 424825 421733	Homo sapiens mRNA for KIAA1870 prote procollagen-lysine, 2-oxoglutarate 5-di fibroblast growth factor receptor 3 (ac	in, H81136 AF207069 AL119671	Hs.334604 Hs.153357 Hs.1420	9.4 9.4 9.3	2005 2006 6302 1585 5997
50	417930 424825 421733 406707	Homo sapiens mRNA for KIAA1870 prote procollagen-lysine, 2-oxoglutarate 5-di fibroblast growth factor receptor 3 (ac myosin, heavy polypeptide 2, skeletal m	in, H81136 AF207069 AL119671 S73840	Hs.334604 Hs.153357 Hs.1420 Hs.931	9.4 9.4 9.3 9.3	2005 2006 6302 1585 5997 61 62 4829
	417930 424825 421733 406707 445016	Homo sapiens mRNA for KIAA1870 prote procollagen-lysine, 2-oxoglutarate 5-di fibroblast growth factor receptor 3 (ac myosin, heavy polypeptide 2, skeletal m reelin	in, H81136 AF207069 AL119671 S73840 U79716	Hs.334604 Hs.153357 Hs.1420 Hs.931 Hs.12246	9.4 9.4 9.3 9.3 9.3	2005 2006 6302 1585 5997 61 62 4829 3738 3739 7684
	417930 424825 421733 406707 445016 409125	Homo sapiens mRNA for KIAA1870 prote procollagen-lysine, 2-oxoglutarate 5-di fibroblast growth factor receptor 3 (ac myosin, heavy polypeptide 2, skeletal m reelin axonal transport of synaptic vesicles	in, H81136 AF207069 AL119671 S73840 U79716 R17268	Hs.334604 Hs.153357 Hs.1420 Hs.931 Hs.12246 Hs.343557	9.4 9.4 9.3 9.3 9.3 9.3	2005 2006 6302 1585 5997 61 62 4829 3738 3739 7684 308 5024
50	417930 424825 421733 406707 445016 409125 421116	Homo sapiens mRNA for KIAA1870 prote procollagen-lysine, 2-oxoglutarate 5-di fibroblast growth factor receptor 3 (ac myosin, heavy polypeptide 2, skeletal m reelin axonal transport of synaptic vesicles retinol-binding protein 1, cellular	in, H81136 AF207069 AL119671 S73840 U79716 R17268 T19132	Hs.334604 Hs.153357 Hs.1420 Hs.931 Hs.12246 Hs.343557 Hs.101850	9.4 9.3 9.3 9.3 9.3 9.3	2005 2006 6302 1585 5997 61 62 4829 3738 3739 7684 308 5024 1508 5947
	417930 424825 421733 406707 445016 409125 421116 416349	Homo sapiens mRNA for KIAA1870 prote procollagen-lysine, 2-oxoglutarate 5-di fibroblast growth factor receptor 3 (ac myosin, heavy polypeptide 2, skeletal m reelin axonal transport of synaptic vesicles retinol-binding protein 1, cellular myomesin (M-protein) 2 (165kD)	in, H81136 AF207069 AL119671 S73840 U79716 R17268 T19132 X69089	Hs.334604 Hs.153357 Hs.1420 Hs.931 Hs.12246 Hs.343567 Hs.101850 Hs.79227	9.4 9.3 9.3 9.3 9.3 9.3 9.2	2005 2006 6302 1585 5997 61 62 4829 3738 3739 7684 308 5024 1508 5947 991 992 5556
	417930 424825 421733 406707 445016 409125 421116 416349 417689	Homo sapiens mRNA for KIAA1870 prote procollagen-lysine, 2-oxoglutarate 5-di fibroblast growth factor receptor 3 (ac myosin, heavy polypeptide 2, skeletal m reelin axonal transport of synaptic vesicles retinol-blnding protein 1, cellular myomasin (M-protein) 2 (165kD) KIAA0128 protein; septin 2	in, H81136 AF207069 AL119671 S73840 U79716 R17268 T19132 X69089 AA828347	Hs.334604 Hs.153357 Hs.1420 Hs.931 Hs.12246 Hs.343567 Hs.101850 Hs.79227 Hs.90998	9.4 9.4 9.3 9.3 9.3 9.3 9.2 9.2 9.2	2005 2006 6302 1585 5997 61 62 4829 3738 3739 7684 308 5024 1508 5947 991 992 5556 1148 5673
55	417930 424825 421733 406707 445016 409125 421116 416349	Homo sapiens mRNA for KIAA1870 prote procollagen-lysine, 2-oxoglutarate 5-di fibroblast growth factor receptor 3 (ac myosin, heavy polypeptide 2, skeletal m reelin axonal transport of synaptic vesicles retinol-binding protein 1, cellular myomesin (M-protein) 2 (165kD) KIAA0128 protein; septin 2 ESTs, Weakly similar to AF208855 1 BM-	in, H81136 AF207069 AL119671 S73840 U79716 R17268 T19132 X69089 AA828347 O AA502764	Hs.334604 Hs.153357 Hs.1420 Hs.931 Hs.12246 Hs.343557 Hs.101850 Hs.79227 Hs.90998 Hs.123469	9.4 9.4 9.3 9.3 9.3 9.3 9.2 9.2 9.2 9.1	2005 2006 6302 1585 5997 61 62 4829 3738 3739 7684 308 5024 1508 5947 991 992 5556 1148 5673 4521 8325
55	417930 424825 421733 405707 445016 409125 421116 416349 417689 456508 435958	Homo sapiens mRNA for KIAA1870 prote procollagen-lysine, 2-oxoglutarate 5-di fibroblast growth factor receptor 3 (ac myosin, heavy polypeptide 2, skeletal m reelin axonal transport of synaptic vesicles retinol-binding protein 1, cellular myomesin (M-protein) 2 (165kD) KIAA0128 protein; septin 2 ESTs, Weakly similar to AF208855 1 BM-integral membrane protein 3	in, H81136 AF207069 AL119671 S73840 U79716 R17268 T19132 X69089 AA828347 0 AA502764 AW161481	Hs.334604 Hs.153357 Hs.1420 Hs.931 Hs.12246 Hs.343557 Hs.101850 Hs.79227 Hs.90998 Hs.123469 Hs.111577	9.4 9.4 9.3 9.3 9.3 9.3 9.2 9.2 9.2 9.1 9.1	2005 2006 6302 1585 5997 61 62 4829 3738 3739 7684 308 5024 1508 5947 991 992 5556 1148 5673 4521 8325 3165 7173
	417930 424825 421733 406707 445016 409125 421116 416349 417689 456508	Homo sapiens mRNA for KIAA1870 prote procollagen-lysine, 2-oxoglutarate 5-di fibroblast growth factor receptor 3 (ac myosin, heavy polypeptide 2, skeletal m reelin axonal transport of synaptic vesicles retinol-binding protein 1, cellular myomesin (M-protein) 2 (165kD) KIAA0128 protein; septin 2 ESTs, Weakly similar to AF208855 1 BM-	in, H81136 AF207069 AL119671 S73840 U79716 R17268 T19132 X69089 AA828347 O AA502764	Hs.334604 Hs.153357 Hs.1420 Hs.931 Hs.12246 Hs.343557 Hs.101850 Hs.79227 Hs.90998 Hs.123469	9.4 9.4 9.3 9.3 9.3 9.3 9.2 9.2 9.2 9.1	2005 2006 6302 1585 5997 61 62 4829 3738 3739 7684 308 5024 1508 5947 991 992 5556 1148 5673 4521 8325 3165 7173 2436 2437 6615
55	417930 424825 421733 405707 445016 409125 421116 416349 417689 456508 435968 428405	Homo sapiens mRNA for KIAA1870 prote procollagen-lysine, 2-oxoglutarate 5-di fibroblast growth factor receptor 3 (ac myosin, heavy polypeptide 2, skeletal m reelin axonal transport of synaptic vesicles retinol-binding protein 1, cellular myomesin (M-protein) 2 (165kD) KIAA0128 protein; septin 2 ESTs, Weakly similar to AF208855 1 BM-integral membrane protein 3 cholinergic receptor, nicotinic, alpha ESTs	in, H81136 AF207069 AL119671 S73840 U79716 R17268 T19132 X69089 AA828347 0 AA502764 AW161481 Y00762	Hs.334604 Hs.153357 Hs.1420 Hs.931 Hs.12246 Hs.343557 Hs.101850 Hs.79227 Hs.90998 Hs.123469 Hs.111577 Hs.2266 Hs.351201	9.4 9.4 9.3 9.3 9.3 9.2 9.2 9.2 9.1 9.1 9.0	2005 2006 6302 1585 5997 61 62 4829 3738 3739 7684 308 5024 1508 5947 991 992 5556 1148 5673 4521 8325 3165 7173 2436 2437 6615 962 5530
55	417930 424825 421733 405707 445016 409125 421116 416349 417689 456508 435968 428405 415989	Homo sapiens mRNA for KIAA1870 prote procollagen-lysine, 2-oxoglutarate 5-di fibroblast growth factor receptor 3 (ac myosin, heavy polypeptide 2, skeletal m reelin axonal transport of synaptic vesicles retinol-binding protein 1, cellular myomesin (M-protein) 2 (165kD) KIAA0128 protein; septin 2 ESTs, Weakly similar to AF208855 1 BM-integral membrane protein 3 cholinergic receptor, nicotinic, alpha	in, H81136 AF207069 AL119671 S73840 U79716 R17268 T19132 X69089 AA828347 O AA502764 AW161481 Y00762 AI267700	Hs.334604 Hs.153357 Hs.1420 Hs.931 Hs.12246 Hs.343557 Hs.101850 Hs.79227 Hs.90998 Hs.123469 Hs.111577 Hs.2266	9.4 9.4 9.3 9.3 9.3 9.2 9.2 9.2 9.1 9.1 9.1	2005 2006 6302 1585 5997 61 62 4829 3738 3739 7684 308 5024 1508 5947 991 992 5556 1148 5573 4521 8325 3165 7173 2436 2437 6615 962 5530 3621 3622 7586
55 60	417930 424825 421733 405707 445016 409125 421116 416349 417689 456508 435968 428405 415889 443426	Homo sapiens mRNA for KIAA1870 prote procollagen-lysine, 2-oxoglutarate 5-di fibroblast growth factor receptor 3 (ac myosin, heavy polypeptide 2, skeletal m reelin axonal transport of synaptic vesicles retinol-binding protein 1, cellular myomesin (M-protein) 2 (165kD) KIAA0128 protein; septin 2 ESTs, Weakly similar to AF208855 1 BM-integral membrane protein 3 cholinergic receptor, nicotinic, alpha ESTs chromosome 20 open reading frame 1	in, H81136 AF207069 AL119671 S73840 U79716 R17268 T19132 X69089 AA828347 0 AA502764 AW1614B1 Y00762 AL267700 AF098158	Hs.334604 Hs.153357 Hs.1420 Hs.931 Hs.12246 Hs.343557 Hs.101850 Hs.79227 Hs.90998 Hs.123469 Hs.111577 Hs.2266 Hs.351201 Hs.9329	9.4 9.4 9.3 9.3 9.3 9.2 9.2 9.2 9.1 9.1 9.1 9.0 9.0	2005 2006 6302 1585 5997 61 62 4829 3738 3739 7684 308 5024 1508 5947 991 992 5556 1148 5673 4521 8325 3165 7173 2436 2437 6615 962 5530
55	417930 424825 421733 405707 445016 409125 421116 416349 417689 456508 435968 428405 415989 443426 453597	Homo sapiens mRNA for KIAA1870 prote procollagen-lysine, 2-oxoglutarate 5-di fibroblast growth factor receptor 3 (ac myosin, heavy polypeptide 2, skeletal m reelin axonal transport of synaptic vesicles retinol-binding protein 1, cellular myomesin (M-protein) 2 (165kD) KIAA0128 protein; septin 2 ESTs, Weakly similar to AF208855 1 BM-integral membrane protein 3 cholinergic receptor, nicotinic, alpha ESTs chromosome 20 open reading frame 1 myo-inositol 1-phosphate synthase A1	in, H81136 AF207069 AL119671 S73840 U79716 R17268 T19132 X69089 AA828347 0 AA502764 AW161481 Y00762 A1267700 AF098158 BE281130	Hs.334604 Hs.153357 Hs.1420 Hs.931 Hs.12246 Hs.343557 Hs.101850 Hs.79227 Hs.90998 Hs.123469 Hs.111577 Hs.2266 Hs.351201 Hs.39329 Hs.381118	9.4 9.4 9.3 9.3 9.3 9.2 9.2 9.1 9.1 9.1 9.0 9.0	2005 2006 6302 1585 5997 61 62 4829 3738 3739 7684 308 5024 1508 5947 991 992 5556 1148 5673 4521 8325 3165 7173 2436 2437 6615 962 5530 3621 3622 7586 4429 8249
55 60	417930 424825 421733 405707 445016 409125 421116 416349 417689 456508 435968 428405 415989 443426 453597 421815	Homo sapiens mRNA for KIAA1870 prote procollagen-lysine, 2-oxoglutarate 5-di fibroblast growth factor receptor 3 (ac myosin, heavy polypeptide 2, skeletal m reelin axonal transport of synaptic vesicles retinol-binding protein 1, cellular myomesin (M-protein) 2 (165kD) KIAA0128 protein; septin 2 ESTs, Weakly similar to AF208855 1 BM-integral membrane protein 3 cholinergic receptor, nicotinic, alpha ESTs chromosome 20 open reading frame 1 myo-inositid 1-phosphate synthase A1 membrane protein CH1	in, H81136 AF207069 AL119671 S73840 U79716 R17268 T19132 X69089 AA828347 0 AA502764 AW161481 Y00762 AI267700 AF098158 BE281130 AW592146	Hs.334604 Hs.153357 Hs.1420 Hs.931 Hs.12246 Hs.343557 Hs.101850 Hs.79227 Hs.90998 Hs.123469 Hs.111577 Hs.2266 Hs.351201 Hs.9329 Hs.381118 Hs.3856	9.4 9.4 9.3 9.3 9.3 9.2 9.2 9.2 9.1 9.1 9.1 9.0 9.0 9.0	2005 2006 6302 1585 5997 61 62 4829 3738 3739 7684 308 5024 1508 5947 991 992 5556 1148 5673 4521 8325 3165 7173 2436 2437 6615 962 5530 3621 3622 7586 4429 8249 1598 6009
55 60	417930 424825 421733 405707 445016 409125 421116 416349 417689 456508 435968 428405 415989 443426 453597 421815 434352	Homo sapiens mRNA for KIAA1870 prote procollagen-lysine, 2-oxoglutarate 5-di fibroblast growth factor receptor 3 (ac myosin, heavy polypeptide 2, skeletal m reelin axonal transport of synaptic vesicles retinol-binding protein 1, cellular myomesin (M-protein) 2 (165kD) KIAA0128 protein; septin 2 ESTs, Weakly similar to AF208855 1 BM-integral membrane protein 3 cholinergic receptor, nicotinic, alpha ESTs chromosoma 20 open reading frame 1 myo-inositol 1-phosphate synthase A1 membrane protein CH1 small muscle protein, X-linked	in, H81136 AF207069 AL119671 S73840 U79716 R17268 T19132 X69089 AA828347 0 AA502764 AW161481 Y00762 AI267700 AF098158 BE281130 AW592146 AF129505	Hs.334604 Hs.153357 Hs.1420 Hs.931 Hs.12246 Hs.343557 Hs.101850 Hs.79227 Hs.90998 Hs.123469 Hs.123469 Hs.351201 Hs.9329 Hs.381118 Hs.36492	9.4 9.4 9.3 9.3 9.3 9.2 9.2 9.2 9.1 9.1 9.1 9.0 9.0 9.0 9.0 8.9	2005 2006 6302 1585 5997 61 62 4829 3738 3739 7684 308 5024 1508 5947 991 992 5556 1148 5673 4521 8325 3165 7173 2436 2437 6615 962 5530 3621 3622 7586 4429 8249 1598 6009 3047 3048 7075
55 60	417930 424825 421733 405707 445016 409125 421116 416349 417689 456508 435958 428405 415889 443426 453597 421815 434352 452223	Homo sapiens mRNA for KIAA1870 prote procollagen-lysine, 2-oxoglutarate 5-di fibroblast growth factor receptor 3 (ac myosin, heavy polypeptide 2, skeletal m reelin axonal transport of synaptic vesicles retinol-binding protein 1, cellular myomasin (M-protein) 2 (165kD) KIAA0128 protein; septin 2 ESTs, Weakly similar to AF208855 1 BM-integral membrane protein 3 cholinergic receptor, nicotinic, alpha ESTs chromosome 20 open reading frame 1 myo-inositol 1-phosphate synthase A1 membrane protein CH1 small muscle protein, X-tinked hypothetical protein MGC2827	in, H81136 AF207069 AL119671 S73840 U79716 R17268 T19132 X69089 AA828347 0 AA502764 AW161481 Y00762 A1267700 AF098158 BE281130 AW592146 AF129505 AA425467 BE393948 BE613836	Hs.334604 Hs.153357 Hs.1420 Hs.931 Hs.12246 Hs.343557 Hs.101850 Hs.79227 Hs.90998 Hs.123469 Hs.111577 Hs.2266 Hs.351201 Hs.9329 Hs.381118 Hs.108536 Hs.108636 Hs.86492 Hs.8035	9.4 9.4 9.3 9.3 9.3 9.2 9.2 9.2 9.1 9.1 9.0 9.0 9.0 9.0 8.9 8.9	2005 2006 6302 1585 5997 61 62 4829 3738 3739 7684 308 5024 1508 5947 991 992 5556 1148 5673 4521 8325 3165 7173 2436 2437 6615 962 5530 3621 3622 7586 4429 8249 1598 6009 3047 3048 7075 4302 8142
556065	417930 424825 421733 405707 445016 409125 421116 416349 417689 456508 435968 428405 415989 443426 453597 421815 434352 452223 409178 418140 418113	Homo sapiens mRNA for KIAA1870 prote procollagen-lysine, 2-oxoglutarate 5-di fibroblast growth factor receptor 3 (ac myosin, heavy polypeptide 2, skeletal m reelin axonal transport of synaptic vesicles retinol-binding protein 1, cellular myomesin (M-protein) 2 (165kD) KIAA0128 protein; septin 2 ESTs, Weakly similar to AF208855 1 BM-integral membrane protein 3 cholinergic receptor, nicotinic, alpha ESTs chromosome 20 open reading frame 1 myo-inositid 1-phosphate synthase A1 membrane protein CH1 small muscle protein MGC2827 kallikrein 5 microfibrillar-associated protein 2 SRY (sex determining region Y)-box 4	in, H81136 AF207069 AL119671 S73840 U79716 R17268 T19132 X69089 AA828347 0 AA502764 AW161481 Y00762 AI267700 AF098158 BE281130 AW592146 AF129505 AA425467 BE393948 BE613836 AI272141	Hs.334604 Hs.153357 Hs.1420 Hs.931 Hs.12246 Hs.343557 Hs.101850 Hs.79227 Hs.90998 Hs.123459 Hs.111577 Hs.2266 Hs.351201 Hs.9329 Hs.381118 Hs.108536 Hs.108536 Hs.86492 Hs.8035 Hs.50915	9.4 9.4 9.3 9.3 9.3 9.2 9.2 9.2 9.1 9.1 9.0 9.0 9.0 9.0 9.0 8.9 8.9 8.9	2005 2006 6302 1585 5997 61 62 4829 3738 3739 7684 308 5024 1508 5947 991 992 5556 1148 5573 4521 8325 3165 7173 2436 2437 6615 962 5530 3621 3622 7586 4429 8249 1598 6009 3047 3048 7075 4302 8142 319 5032
55 60	417930 424825 421733 405707 445016 409125 421116 416349 417689 456508 435958 428405 415989 443426 453597 421815 434352 452223 409178 418140 418113 408915	Homo sapiens mRNA for KIAA1870 prote procollagen-lysine, 2-oxoglutarate 5-di fibroblast growth factor receptor 3 (ac myosin, heavy polypeptide 2, skeletal m reelin axonal transport of synaptic vesicles retinol-blnding protein 1, cellular myomesin (M-protein) 2 (165kD) KIAA0128 protein; septin 2 ESTs, Weakly similar to AF208855 1 BM-integral membrane protein 3 cholinergic receptor, nicotinic, alpha ESTs chromosome 20 open reading frame 1 myo-inositol 1-phosphate synthase A1 membrane protein CH1 small muscle protein, X-tinked hypothetical protein MGC2827 kallikrein 5 microfibrillar-associated protein 2 SRY (sex determining region Y)-box 4 heptaceitular carcinoma novel gene-3 pr	in, H81136 AF207069 AL119671 S73840 U79716 R17268 T19132 X69089 AA828347 0 AA502764 AW161481 Y00762 A1267700 AF098158 BE281130 AW592146 AF129505 AA425467 BE393948 BE613836	Hs.334604 Hs.153357 Hs.1420 Hs.1420 Hs.931 Hs.12246 Hs.343557 Hs.101850 Hs.79227 Hs.90998 Hs.123469 Hs.111577 Hs.2266 Hs.351201 Hs.9329 Hs.381118 Hs.108636 Hs.86492 Hs.8035 Hs.803551 Hs.83551 Hs.83551 Hs.83551 Hs.83551	9.4 9.4 9.3 9.3 9.3 9.2 9.2 9.1 9.1 9.0 9.0 9.0 9.0 8.9 8.9 8.9	2005 2006 6302 1585 5997 61 62 4829 3738 3739 7684 308 5024 1508 5947 991 992 5556 1148 5673 4521 8325 3165 7173 2436 2437 6615 962 5530 3621 3622 7586 4429 8249 1598 6009 3047 3048 7075 4302 8142 319 5032 1196 5713
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5560657075	417930 424825 421733 405707 445016 409125 421116 416349 416349 416349 416349 4156508 435968 428405 415989 443426 453597 421815 434352 45923 409178 418140 418113 408915 412719 458079 412276 428087 433447 428928 416072 414416 418390 442573 450447 417435	Homo sapiens mRNA for KIAA1870 prote procollagen-lysine, 2-oxoglutarate 5-di fibroblast growth factor receptor 3 (ac myosin, heavy polypeptide 2, skeletal m reelin axonal transport of synaptic vesicles retinol-binding protein 1, cellular myomesin (M-protein) 2 (165kD) KIAA0128 protein; septin 2 ESTs, Weakly similar to AF208855 1 BM-integral membrane protein 3 cholinergic receptor, nicotinic, alpha ESTs chromosome 20 open reading frame 1 myo-inositol 1-phosphate synthase A1 membrane protein CH1 small muscle protein MGC2827 kallikrein 5 microfibrillar-associated protein 2 SRY (sex determining region Y)-box 4 heptaceitular carcinoma novel gene-3 pr ESTs Homo sapiens similar to RIKEN cDNA 28 macrophage migration inhibitory factor troponin C2, fast neuronal pentraxin II cadherin 1, type 1, E-cadherin (epithel growth associated protein 43 hypothetical protein MGC2721 titin Immunoglobulin domain protein (my branched chain aminotransferase 1, cyto hypothetical protein P15-2 carbonic anhydrase III, muscle specific	in, H81136 AF207069 AL119671 S73840 U79716 R17268 T19132 X69089 AA828347 0 AA502764 AW161481 Y00762 AI267700 AF098158 BE281130 AW592146 AF129505 AA425467 BE393948 BE613336 AIZ72141 NM_016651 AW016610 10 AI796870 BE262621 AA100573 U29195 BE409838 AL110370 AW409985 AF133820 H93366	Hs.334604 Hs.153357 Hs.1420 Hs.15236 Hs.343557 Hs.101850 Hs.79227 Hs.101850 Hs.79227 Hs.2266 Hs.351201 Hs.36492 Hs.36492 Hs.36492 Hs.38118 Hs.108536 Hs.8035 Hs.50915 Hs.83551 Hs.83551 Hs.83551 Hs.83581 Hs.194657 Hs.381220 Hs.73798 Hs.182421 Hs.3281 Hs.194657 Hs.79000 Hs.76084 Hs.84665 Hs.8665	9.4 9.4 9.3 9.3 9.3 9.2 9.2 9.1 9.1 9.0 9.0 9.0 9.0 9.0 8.9 8.8 8.8 8.8 8.7 8.6 8.6 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5	2005 2006 6302 1585 5997 61 62 4829 3738 3739 7684 308 5024 1508 5947 991 992 5556 1148 5673 4521 8325 3165 7173 2436 2437 6615 962 5530 3621 3622 7586 4429 8249 1598 6009 3047 3048 7075 4302 8142 3196 5713 1194 5711 274 275 4998 633 5270 4566 8363 580 5229 2396 6582 2980 2981 7021 2489 6654 969 5537 813 5417 1226 1227 5735 3570 7541 4168 4169 8036 1121 1122 5655
556065707580	417930 424825 421733 405707 445016 409125 421116 416349 417689 456508 435958 428405 415989 443426 453597 421815 434352 452223 409178 418140 418140 418140 4181719 458079 41276 428087 433447 418416 418390 442573 450447 417435 402992	Homo sapiens mRNA for KIAA1870 prote procollagen-lysine, 2-oxoglutarate 5-di fibroblast growth factor receptor 3 (ac myosin, heavy polypeptide 2, skeletal m reelin axonal transport of synaptic vesicles retinol-binding protein 1, cellular myomasin (M-protein) 2 (165kD) KIAA0128 protein; septin 2 ESTs, Weakly similar to AF208855 1 BM-integral membrane protein 3 cholinergic receptor, nicotinic, alpha ESTs chromosome 20 open reading frame 1 myo-inositol 1-phosphate synthase A1 membrane protein CH1 small muscle protein, X-linked hypothetical protein MGC2827 kallikrein 5 microfibrillar-associated protein 2 SRY (sex determining region Y)-box 4 heptacefullar carcinoma novel gene-3 pr ESTs Homo saplens similar to RIKEN cDNA 28 macrophage migration inhibitory factor troponin C2, fast neuronal pentraxin II cadherin 1, type 1, E-cadherin (epithet growth associated protein 43 hypothetical protein MGC2721 titin Immunoglobulin domain protein (my branched chath aminotransferase 1, cyto hypothetical protein P15-2 carbonic anhydrase III, muscle specific Target Exon	in, H81136 AF207069 AL119671 S73840 U79716 R17268 T19132 X69089 AA828347 0 AA502764 AW161481 Y00762 AI267700 AF098158 BE281130 AW592146 AA7129505 AA425467 BE393948 BE613836 AIZ72141 NM_016651 AW016610 10 AI796870 BE262621 AA100573 U29195 BE409838 AL110370 AW409985 AF133820 H93366 AF212223 NM_005181	Hs.334604 Hs.153357 Hs.1420 Hs.153357 Hs.1420 Hs.931 Hs.12246 Hs.343557 Hs.101850 Hs.79227 Hs.90998 Hs.123469 Hs.111577 Hs.2266 Hs.351201 Hs.9329 Hs.381118 Hs.108636 Hs.351201 Hs.8035 Hs.50915 Hs.8035 Hs.80	9.4 9.4 9.3 9.3 9.3 9.2 9.2 9.1 9.0 9.0 9.0 9.0 8.9 8.9 8.8 8.6 8.6 8.6 8.5 8.5 8.5 8.5 8.4 8.4	2005 2006 6302 1585 5997 61 62 4829 3738 3739 7684 308 5024 1508 5947 991 992 5556 1148 5673 4521 8325 3165 7173 2436 2437 6615 962 5530 3621 3622 7586 4429 8249 1598 6009 3047 3048 7075 4302 8142 319 5032 1196 5713 1194 5711 274 275 4998 633 5270 4566 8363 580 5229 2396 6582 2980 2981 7021 2489 6654 969 5537 813 5417 1226 1227 5735 3570 7541 4168 4169 8036 1121 1122 5655 4700
556065707580	417930 424825 421733 405707 445016 409125 421116 416349 417689 456508 435968 428405 4115889 443426 453597 421815 434352 452223 409178 418140 418113 408915 412719 458079 412276 428087 433447 428928 416072 414416 418390 442573 450447 417435 402992 421579	Homo sapiens mRNA for KIAA1870 prote procollagen-lysine, 2-oxoglutarate 5-di fibroblast growth factor receptor 3 (ac myosin, heavy polypeptide 2, skeletal m reelin axonal transport of synaptic vesicles retinol-binding protein 1, cellular myomesin (M-protein) 2 (165kD) KIAA0128 protein; septin 2 ESTs, Weakly similar to AF208855 1 BM-integral membrane protein 3 cholinergic receptor, nicotinic, alpha ESTs chromosome 20 open reading frame 1 myo-inositol 1-phosphate synthase A1 membrane protein CH1 small muscle protein, X-linked hypothetical protein MGC2827 kallikrein 5 microfibrillar-associated protein 2 SRY (sex determining region Y)-box 4 heptacellular carcinoma novel gene-3 pr ESTs Homo saplens similar to RIKEN cDNA 28 macrophage migration inhibitory factor troponin C2, fast neuronal pentraxin II cadherin 1, type 1, E-cadherin (epithel growth associated protein 43 hypothetical protein MGC2721 titin Immunoglobulin domain protein (my branched chain aminotransferase 1, cyto hypothetical protein P15-2 carbonic anhydrase III, muscle specific Target Exon stem cell growth factor; lymphocyte sec	in, H81136 AF207069 AL119671 S73840 U79716 R17268 T19132 X69089 AA828347 0 AA502764 AW1614B1 Y00762 AI267700 AF098158 BE281130 AW592146 AF129505 AA425467 BE393948 BE613836 AI272141 NM_016651 AW016610 10 AI796870 BE262621 AA100573 U29195 BE409838 AL110370 AW409985 AF133820 H93366 AF212223 NM_005181	Hs.334604 Hs.153357 Hs.1420 Hs.153357 Hs.1420 Hs.931 Hs.12246 Hs.343557 Hs.101850 Hs.79227 Hs.90998 Hs.123469 Hs.111577 Hs.2266 Hs.351201 Hs.9329 Hs.381118 Hs.108636 Hs.351201 Hs.83451 Hs.86492 Hs.8035 Hs.86492 Hs.8035 Hs.8484 Hs.48950 Hs.848484 Hs.48950 Hs.848655 Hs.7567 Hs.79000 Hs.76084 Hs.846655 Hs.7567 Hs.25010 Hs.8 2129 Hs.1 05927	9.4 9.4 9.3 9.3 9.3 9.2 9.2 9.1 9.0 9.0 9.0 9.0 9.0 8.9 8.9 8.8 8.7 8.6 8.6 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.4 8.4	2005 2006 6302 1585 5997 61 62 4829 3738 3739 7684 308 5024 1508 5947 991 992 5556 1148 5573 4521 8325 3165 7173 2436 2437 6615 962 5530 3621 3622 7586 4429 8249 1598 6009 3047 3048 7075 4302 8142 319 5032 1196 5713 1194 5711 274 275 4998 633 5270 4566 8363 580 5229 2396 6582 2980 2981 7021 2489 6654 969 5537 813 5417 1226 1227 5735 3570 7541 4168 4169 8036 1121 1122 5655 4700
5560657075	417930 424825 421733 405707 445016 409125 421116 416349 417689 456508 435958 428405 415989 443426 453597 421815 434352 452223 409178 418140 418140 418140 4181719 458079 41276 428087 433447 418416 418390 442573 450447 417435 402992	Homo sapiens mRNA for KIAA1870 prote procollagen-lysine, 2-oxoglutarate 5-di fibroblast growth factor receptor 3 (ac myosin, heavy polypeptide 2, skeletal m reelin axonal transport of synaptic vesicles retinol-binding protein 1, cellular myomasin (M-protein) 2 (165kD) KIAA0128 protein; septin 2 ESTs, Weakly similar to AF208855 1 BM-integral membrane protein 3 cholinergic receptor, nicotinic, alpha ESTs chromosome 20 open reading frame 1 myo-inositol 1-phosphate synthase A1 membrane protein CH1 small muscle protein, X-linked hypothetical protein MGC2827 kallikrein 5 microfibrillar-associated protein 2 SRY (sex determining region Y)-box 4 heptacefullar carcinoma novel gene-3 pr ESTs Homo saplens similar to RIKEN cDNA 28 macrophage migration inhibitory factor troponin C2, fast neuronal pentraxin II cadherin 1, type 1, E-cadherin (epithet growth associated protein 43 hypothetical protein MGC2721 titin Immunoglobulin domain protein (my branched chath aminotransferase 1, cyto hypothetical protein P15-2 carbonic anhydrase III, muscle specific Target Exon	in, H81136 AF207069 AL119671 S73840 U79716 R17268 T19132 X69089 AA828347 0 AA502764 AW161481 Y00762 AI267700 AF098158 BE281130 AW592146 AA7129505 AA425467 BE393948 BE613836 AIZ72141 NM_016651 AW016610 10 AI796870 BE262621 AA100573 U29195 BE409838 AL110370 AW409985 AF133820 H93366 AF212223 NM_005181	Hs.334604 Hs.153357 Hs.1420 Hs.153357 Hs.1420 Hs.931 Hs.12246 Hs.343557 Hs.101850 Hs.79227 Hs.90998 Hs.123469 Hs.111577 Hs.2266 Hs.351201 Hs.9329 Hs.381118 Hs.108636 Hs.351201 Hs.8035 Hs.50915 Hs.8035 Hs.80	9.4 9.4 9.3 9.3 9.3 9.2 9.2 9.1 9.0 9.0 9.0 9.0 8.9 8.9 8.8 8.6 8.6 8.6 8.5 8.5 8.5 8.5 8.4 8.4	2005 2006 6302 1585 5997 61 62 4829 3738 3739 7684 308 5024 1508 5947 991 992 5556 1148 5673 4521 8325 3165 7173 2436 2437 6615 962 5530 3621 3622 7586 4429 8249 1598 6009 3047 3048 7075 4302 8142 319 5032 1196 5713 1194 5711 274 275 4998 633 5270 4566 8363 580 5229 2396 6582 2980 2981 7021 2489 6654 969 5537 813 5417 1226 1227 5735 3570 7541 4168 4169 8036 1121 1122 5655 4700

	400102	VACE 4	A5004000	11 440000		
	409103 417409	XAGE-1 protein	AF251237	Hs.112208	8.3	304 305 5021
	428484	syndecan 1 solute carrier family 7 (cationic amino	BE272506 AF104032	Hs.82109 Hs.184601	8.3 8.3	1113 5650 2449 2450 6624
	412104	Homo sapiens, Similar to RIKEN cDNA 2			8.3	569 5220
5	417900	CDC20 (cell division cycle 20, S. cerev	BE250127	Hs.82906	8.3	1165 5688
	449722	cyclin B1	BE280074	Hs.23960	8.2	4112 7990
	425227	ESTs	H84455	Hs.40639	8.2	2069 6348
	414821	Fc fragment of IgG, high affinity Ia, r	M63835	Hs.77424	8.2	876 877 5465
10	407824 418067	Homo sapiens cDNA FLJ14388 fis, clone			8.2	166 4910
10	457869	cystatin E/M Homo sepiens, elpha-1 (VI) collagen	A1127958 AU077186	Hs.83393 Hs.108885	8.2	1189 5706
	409633	ESTs	AW449822	Hs.55200	8.2 8.1	4561 8359 371 5068
	412926	macrophage myristoylated alanine-rich C		Hs.75061	8.1	655 5290
4.5	426429	myosin-binding protein C, slow-type	X73114	Hs.169849	8.1	2224 2225 6456
15	440042	ESTs	Al073387	Hs.133898	8.1	3448 7430
	441636	Homo sapiens mRNA; cDNA DKFZp566			8.1	3530 7502
	421458	carbohydrate (keratan sulfate Gal-6) su	NM_003654		8.0	1543 1544 5972
	427239 413511	ublquitin carrier protein arginine-rich, mutated in early stage t	BE270447 Al627178	Hs.356512 Hs.75412	8.0 8.0	2311 6515 728 5345
20	411296	growth suppressor 1	BE207307	Hs.10114	8.0	524 5183
	439979	hypothetical protein FLJ10430	AW600291	Hs.6823	8.0	3442 7424
	423575	Intron of periostin (OSF-2os)	C18863	Hs.163443	7.9	1820 6173
	454140	hypothetical protein FLJ10474	AB040888	Hs.41793	7.9	4493 4494 8301
25	428182	ESTs, Weakly similar to GGC1_HUMAN				2403 6588
43	440087 425234	hypothetical protein FLJ22678 ESTs, Weakly similar to I38022 hypothet	W28969	Hs.7718	7.9	3452 7433
	400231	Eos Control	AVV 152225	Hs.165909 Hs.169476	7.8 7.8	2070 6349 4603
	407619	collagen, type IX, alpha 2	AL050341	Hs.37165	7.8	146 147 4892
20.	410366	hypothetical protein	AJ267589	Hs.302689	7.8	457 5133
3 0 1	406837	immunoglobulin kappa constant	R70292	Hs.156110	7.8	69 4836
	406782	gb:zw20f11.s1 Soares ovary turnor NbH0			7.8	65 4832
	431629 422867	interferon, alpha-inducible protein (cl	AU077025	Hs.265827	7.8	2803 6881
	408989	cartilage oligomeric matrix protein (ps KIAA0746 protein	L32137 AW361666	Hs.1584 Hs.49500	7.8 7.8	1751 1752 6122
35	420798	keratin 10 (epidermolytic hyperkeratosi	W93774	Hs.99936		290 5010 1479 5925
	427378	melanoma antigen, family D, 1	BE515037	Hs.177556	7.7	2322 6523
	409041	Hypothetical protein, XP_051860 (KIAA1	1 AB033025	Hs.50081	7.7	299 300 5017
	447033	Predicted gene: Eos cloned; secreted w/		Hs.157601	7.7	3885 7802
40	423217	collagen, type VII, alpha 1 (epidermoly	NM_000094		7.7	1784 1785 6147
40	409096 418506	sarcomeric muscle protein	AA194412	Hs.50550	7.7	302 5019
	414152	Unknown protein for MGC:29643 (former thrombospondin 4	NM_003248	Hs.372651	7.7 7.7	1247 <i>5</i> 748 782 783 5391
	412140	RAB6 Interacting, kinesin-like (rabkine	AA219691	Hs.73625	7.7	573 5223
4.5	401780	NM_005557*:Homo saplens keratin 16 (f			7.7	4661
45	437696	hypothetical protein dJ37E16.5	Z83844	Hs.5790	7.6	3281 7274
	431958	cadherin 3, type 1, P-cadherin (placent	X63629	Hs.2877	7.6	2834 2835 6904
	433075 427747	sortiiin 1 serine/lhreonine kinase 12	NM_002959		7.6	2936 2937 6987
	444006	type I transmembrane protein Fn14	AW411425 BE395085	Hs.180655 Hs.334762	7.6 7.6	2365 6557 3668 7627
50	416378	ankyrin repeat domain 2 (stretch respon	AW044467	Hs.73708	7.6	997 5560
	409327	collagen, type IX, alpha 3	L41162	Hs.53563	7.6	341 342 5047
	429329	Homo sapiens pannexin 3 (PANX3)	AA456140	Hs.99235	7.5	2547 6699
	432481	intron of collagen, type XI, alpha 1	AW451645	Hs.151504	7.5	2876 6938
55 -	427474 436481	aggrecan 1 (chondroitin sulfate proteog HSPC150 protein similar to ubiquitin-co	U13192	Hs.2159	7.5	2334 6532
	426363	transforming growth factor, beta 3	AA379597 M58524	Hs.5199 Hs.2025	7.5 7.5	3192 7197 2210 2211 6446
	451099	interleukin 13 receptor, alpha 2	R52795	Hs.25954	7.5	4212 8071
	440650	Human DNA sequence from PAC 75N13			7.5	3477 7455
60	408536	ESTs	AW381532	Hs.135188	7.5	236 4967
UU	412641 421016	heat shock 90kD protein 1, beta	M16660	Hs.74335	7.5	620 621 5260
	438746	transcription factor 3 (E2A immunoglobu Human melanoma-associated antigen p9		Hs.101047	7.4 7.4	1497 5937
	426509	pentaxin-related gene, rapidly induced	M31166	Hs.184727 Hs.2050	7.4	3353 7337 2243 2244 6468
~~	439755	B7 homolog 3	AW748482	Hs.77873	7.4	3430 7413
65	453392	SRY (sex determining region Y)-box 11	U23752	Hs.32964	7.4	4416 4417 8239
	418203	CDC28 protein kinase 2	X54942	Hs.83758	7.4	1202 1203 5719
	412006	ESTs	AW451618	Hs.380683	7.3	565 5217
	414945 407656	lymphocyte antigen 6 complex, locus E Homo sapiens mRNA; cDNA DKFZp434E	BE076358	Hs.77667	7.3	894 5477
70	438949	abl-interactor 12 (SH3-containing prote	AA058571	Hs.285728	3 7.3 7.3	148 4893 3369 7352
	413436	sphingosine kinase 1	AF238083	Hs.68061	7.3	721 722 5339
	410001	kallikrein 11	AB041036	Hs.57771	7.3	403 404 5094
	435793	KIAA1313 protein	AB037734	Hs.4993	7.3	3152 3153 7162
75	446051	ephrin-A3	BE048061	Hs.37054	7.3	3816 7744
75	426440 444371	solute carrier family 2 (facilitated gl forkhead box M1	BE382756	Hs.169902	7.3	2228 6458
	449294	ESTs	BE540274 Al651786	Hs.239 Hs.195045	7.3 7.3	3696 7651 4079 7961
	401673	C16001416*:gi 12743112 ref XP_010131		16.100070	7.2 7.2	4658
00	401797	Target Exon	•		7.2	4663
80	412755	ESTs, Weakly similar to P4HA_HUMAN F			7.2	637 5274
	424415 401566	enolase 2, (gamma, neuronal)	NM_001975	Hs.1 46580	7.2	1947 1948 6263
	401566 430713	NM_005159:Homo saplens actin, alpha, of eukaryotic translation elongation facto		Un note	7.2	4654
	432239	matrix metalloproteinase 13 (collagenas	AA351647 XB1334	Hs.2642 Hs.2936	7.2 7.2	2726 6824 2856 2857 6921
85	438682	EBP50-PDZ interactor of 64 kD		Hs.17719	7.2	3346 7331
	412939	eukaryotic translation elongation facto		Hs.75069	7.2	657 5292

	453665	ESTs, Wealdy similar to SFRB_HUMAN S	PLI AA626250	Hs.326184	7.2	4434 8253
	428471	stratifin		Hs.184510	7.2	2445 2446 6622
	409893 425397	minichromosome maintenance deficient (5 topolsomerase (DNA) il alpha (170kD)		Hs.57101 Hs.156346	7.2 7.2	397 5088 2099 2100 6369
5	449226	KIAA0367 protein		Hs.23311	7.2	4072 4073 7955
	421717	divalent cation tolerant protein CUTA		Hs.107187	7.2	1583 1584 5996
	437898	ESTs		Hs.43410	7.1	3293 7286
	413011 421307	biglycan Homo saptens mRNA; cDNA DKFZp4348		Hs.821 276 He 10330	7.1 571	669 5302 1528 5963
10	435652	uncharacterized hypothalamus protein HB		Hs.334370	7.1	3142 7154
	418322	cyclin-dependent kinase inhibitor 3 (CD	AA284166	Hs.84113	7.1	1214 5727
	453876	ESTs, Weakly similar to 138022 hypothet		Hs.110406	7.1	4457 8271
	444026 421508	hypothetical protein FLJ14957 absent in melanoma 2	AA205759 NM_004833	Hs.10119 Hs 1 05115	7.1 7.1	3672 7631 1551 1552 5977
15	426798	ESTs	AA385062	Hs.130260	7.1	2275 6487
	436608	down syndrome critical region protein D	AA628980	Hs.192371	7.0	3205 7207
	436748 420103	collagen, type VI, alpha 2	BE159107	Hs.159263	7.0	3212 7213
	453830	aldehyde dehydrogenase 1 family, membe ESTs	AA534296	Hs.95197 Hs.20953	7.0 7.0	1416 5878 4445 8263
20	422043	retinoic acid induced 1	AL133649	Hs.110953	7.0	1629 1630 6033
	419222	spermine synthase	AD001528	Hs.89718	7.0	1318 1319 5803
	427099	odd Oz/ten-m homolog 2 (Drosophila, mou		Hs.173560	7.0	2302 2303 6509
	414346 411089	splicing factor 3b, subunit 2, 145kD cell division cycle 2-like 1 (PITSLRE p	AL035770 AA456454	Hs.75916 Hs.214291	7.0 7.0	806 5411 513 5173
25	407811	cysteine knot superfamily 1, BMP antago		Hs.40098	7.0	164 4908
	415314	glycoprolein M6B	N88802	Hs.5422	6.9	921 5497
	407792 424001	putative secreted ligand homologous to paternally expressed 10	A1077715	Hs.39384	6.9	162 4906
	400499	C10001858:gi 6679124 ref NP_032759.1	W67883 n	Hs.137476	6.9 6.9	1882 6217 4628
30	446142	ESTs	AI754693	Hs.145968	6.9	3820 7748
	408988	Homo sapiens clone TUA8 Cri-du-chat reg		Hs.49476	6.9	289 5009
	412974 411410	emopamil-binding protein (sterol isomer laminin, gamma 3	R18978 R20693	Hs.75105 Hs.69954	6.9 6.9	664 5297 536 5193
	425256	collapsin response mediator protein 1	BE297611	Hs.155392	6.9	2074 6352
35	427171	NIPSNAP, C. elegans, homolog 1	AJ001258	Hs.173878	6.9	2307 2308 6512
	421406 451934	Meis (mouse) homolog 2 ESTs	AF179897	Hs.104105	6.9	1541 1542 5971
	433487	histone deacetylase 2	AI540842 U31814	Hs.61082 Hs.3352	6.9 6.9	4262 8109 2983 2984 7023
40	411852	ESTs, Weakly similar to T00329 hypothet		Hs.107515	6.8	555 5208
40	415752	putative transmembrane protein	BE314524	Hs.78776	6.8	945 5517
	429259 448357	Plakophilin RAB38, member RAS oncogene family	AA420450 N20169	Hs.380088 Hs.108923	6.8 6.8	2535 6689 3994 7893
	451766	ephrin-B3	NM_001406		6.8 .	4255 4256 8104
15	416322	pyrroline-5-carboxylate reductase 1	BE019494	Hs.79217	6.8	989 5554
45	447646 413916	Homo saplens mRNA for KIAA1753 protei apolipoprotein C-II			6.8	3945 7852
	414806	phosphatidylserine synthase 1	N49813 D14694	Hs.75615 Hs.77329	6.8 6.8	753 5367 871 872 5462
	418478	cyclin-dependent kinase inhibitor 2A (m	U38945	Hs.1174	6.8	1245 1246 5747
50	433577	ESTs	AW007080	Hs.284192	6.8	2989 7028
30	451811 429345	hypothetical protein MGC1136 hypothetical protein	AA663485 R11141	Hs.8719 Hs.199695	6.8 6.8	4259 8106 2548 6700
	433101	Homo sapiens mRNA; cDNA DKFZp566L				2940 6990 .
	430413	small inducible cytokine A5 (RANTES)	AW842182	Hs.241392	6.7	2693 6801
55	426457 418418	chimerin (chimaerin) 1 ESTs	AW894667 R61527	Hs.380138 Hs.237517	6.7 6.7	2229 6459 1238 5742
	426831	S-adenosylhomocysteine hydrolase	BE296216	Hs.172673	6.7	2278 6490
	432179	EphB3	X75208	Hs.2913	6.7	2849 2850 6915
	412709	KIAA0027 protein lectomedin-2	AL022327	Hs.74518	6.7	631 632 5269
60	421707 435066	dyskeratosis congenita 1, dyskerin	NM_014921 BE261750	Hs.4747	6.7 6.7	1581 1582 5995 3102 7121
	442577	ESTs	AA292998	Hs.163900	6.6	3571 7542
	442923	ESTs, Weakly similar to unnamed protein		Hs.95835	6.6	3590 7558
	427528 423739	minichromosome maintenance deficient (S ESTs	AA398155	Hs.179565 Hs.97600	6.6 6.6	2341 6537 1842 6190
65	449780	ribosomal protein L44	AA443241	Hs.75874	6.6	4114 7992
	433972	cisplatin resistance-associated overexp	AI878910	Hs.278670	6.6	3021 7054
	406868 450923	immunoglobulin heavy constant gamma 3 ESTs		Hs.300697	6.6	72 4839
	454390	KIAA0906 protein	AW043951 AB020713	Hs.38449 Hs.56966	6.6 6.6	4203 8063 4497 4498 8304
70	409632	serine (or cysteine) proteinase inhibit	W74001	Hs.55279	6.6	370 5067
	409698	short stature homeobox 2	AF022654	Hs.55967	6.6	378 379 5074
	410422 416078	Homo sapiens, clone MGC:15203, mRNA protein tyrosine phosphatase, receptor	, CO ALU42014 ALO34349	Hs.79005	6.6 6.6	462 5136 970 5538
76	417632	glycoprotein M6B	R20855	Hs.379090	6.6	1141 5667
75	447499	protocadherin beta 16	AW262580	Hs.147674	6.6	3934 7842
	430200 441094	geminin MYC-associated zinc finger protein (pur	BE613337 U33819	Hs.234896 Hs.7647	6.5 6.5	2658 6777 3497 3498 7473
	420197	ESTs, Weakly similar to A57291 cytokine		Hs.88134	6.5	1429 5889
80	409731	thymosin, beta, identified in neuroblas	AA125985	Hs.56145	6.5	386 5080
50	452046 448672	KIAA0802 protein ESTs	AB018345 Al955511	Hs.27657 Hs.89582	6.5 6.5	4275 4276 8120 4025 7917
	445084	hypothetical protein FLJ14761	H38914	Hs.250848	6.5	3742 7687
	408562	roundabout (axon guidance receptor, Dro	AJ436323	Hs.31141	6.5	240 4971
85	414438 - 420568	thioredoxin protocadherin alpha 10	A1879277 F09247	Hs.76136 Hs.247735	6.5 6.5	816 5420 1462 5913
	452017	prostate cancer associated protein 7	AF109302	Hs.27495	6.5	4270 8117

	416820	glucose-6-phosphate dehydrogenase	NIM DODADO	Lie o none	C 4	402F 402C FED2
	441020	ESTs	NM_000402		6.4	1035 1036 5587
	410361	guanylate binding protein 1, Interferon	W79283	Hs.35962	6.4	3495 7471
	435025	anchor attachment protein 1 (Gaa1p, yea	BE391804	Hs.62661	6.4	456 5132
5	410102	ESTs; homologue of PEM-3 [Clona savigr	ALADAGEAG	Hs.4742	6.4	3098 7117
5	431204	cytochrome c oxidase subunit Via polype	E20044	Hs.250760	6.4 6.4	422 5107
	448390	hypothetical protein	AL035414		6.4	2760 6848
	411102	triadin	AA401295	Hs.21068 Hs.23926	6.4	3999 7897 515 5175
	420028	carbohydrate (N-acetylglucosamine-6-O)		Hs.8786	6.4	
10	434149	hypothetical protein MGC5469	Z43829		6.4	1408 1409 5872
10	447733	MAD2 (mitotic arrest deficient, yeast,	AF157482	Hs.244624		3030 7063
	423605	cadherin 19, type 2		Hs.19400	6.4	3955 3956 7860
	446342	solute carrier family 7 (cationic amino	AF047826	Hs.129887	6.4	1826 1827 6179
	405516		BE298665	Hs.14846	6.4	3836 7762
15	430681	ENSP00000200457*:Thyrold receptor inte		U- 204222	6.4	4785
1.0	420005	ESTs	AW969675	Hs.291232	6.4	2719 6819
	420005 448595		AW271106	Hs.133294	6.3	1407 5871
		KIAA0644 gene product	AB014544	Hs.21572	6.3	4015 4016 7910
	414085	aldehyde dehydrogenase 1 family, membe		Hs.75746	6.3	775 5384
20	417933	thymidylate synthetase	X02308	Hs.82962	6.3	1170 1171 5692
20	414482	endothelin receptor type A	S57498	Hs.76252	6.3	824 825 5426
	453023	serine protease inhibitor, Kunitz type,	AW028733	Hs.31439	6.3	4380 8208
	423232	leucine-rich neuronal protein	BE244625	Hs.125742	6.3	1787 6149
	451763	hypothetical protein FLJ14220	AW294647	Hs.233634	6.3	4254 8103
25	412182	Splicing factor, arginine/serine-rich,	AA205588	Hs.73737	6.3	577 5226
23	452291	CDC7 (cell division cycle 7, S. cerevis	AF015592	Hs.28853	6.3	4310 4311 8150
	438203	ESTs	BE540090	Hs.7345	6.3	3308 7300
	444329	hypothetical protein FLJ12921	W73753	Hs.209637	6.3	3693 7648
	404030	NM_015669*:Homo sapiens protocadheri		11. 050000	6.3	4735
30	431183	KDEL (Lys-Asp-Glu-Leu) endoplasmic ret		Hs.250696	6.3	2756 2757 6845
50	428450	KIAA0175 gene product	NM_014791		6.3	2443 2444 6621
	400297	hypothetical protein DKFZp564O1278	Al127076	Hs.288381	6.3	7 4618
	452732	Homo sapiens, clone IMAGE:3535294, m			6.3	4348 8180
	426053	poly(A)-binding protein, cytoplasmic 1	U68105	Hs.172182	6.3	2163 6412
35	412507	EphA4	L36645	Hs.73964	6.3	596 597 5243
33	442117	ESTs; hypothetical protein for IMAGE:44		Hs.128899	6.3	3551 7523
	443247	c-Myc target JPO1	BE614387	Hs.333893	6.3	3611 7578
	422511	collagen, type XVII, alpha 1	AU076442	Hs.117938	6.3	1692 6078
	429612	piluitary tumor-transforming 1	AF062649	Hs.252587	6.3	2586 2587 6726
40	446334	polymerase (RNA) II (DNA directed) poly		Hs.75069	6.2	3834 3835 7761
40	431567	Homo saplens cDNA: FLJ21410 fis, clone		Hs.260855	6.2	2799 6878
	450785	Homo sapiens, alpha-1 (VI) collagen	AA852713	Hs.108885	6.2	4193 8056
	424263	L1 cell adhesion molecule (hydrocephalu		Hs.1757	6.2	1925 1926 6246
	450835	hypothetical protein FLJ10767	BE262773	Hs.25584	6.2	4199 8060
45	421295	DC2 protein	AW081061	Hs.103180	6.2	1524 5960
43	453883	cofactor required for Sp1 transcription	AI638516	Hs.347524	6.2	4459 8273
	442432	hypothetical protein FLJ23468	BE093589	Hs.38178	6.1	3563 7535
	422684	H2A histone family, member Z	BE561617	Hs.119192	6.1	1726 6105
	419833	Homo sapiens tryptophanyl-tRNA synthet		Hs.220697	6.1	1388 5856
50	453331 432693	ESTs	Al240665	Hs.352537	6.1	4413 8236
50		ESTS	AW449630	Hs.293790	6.1	2900 6958
	414591	ESTs, Weakly similar to ALU8_HUMAN A	LU AI88849U		6.1	834 5435
	400263	Eos Control	4 4000474	Hs.75309	6.1	4613
	438915	Williams-Beuren syndrome chromosome			6.1	3365 7348
55	406672 435099	major histocompatibility complex, class	M26041 AC004770	Hs.198253	6.1	43 44 4820
55	422100	flap structure-specific endonuclease 1 ADP-ribosylation factor-like 7		Hs.4756	6.1	3104 3105 7123
	415702	gb:HSPD18414 HM3 Homo sapiens cDN/	A1096988	Hs.111554	6.1	1644 6042
	408901	hypothetical protein FLJ10468	AK001330		6.1	942 5515
	402810	NM_004930*:Homo sapiens capping prote		Hs.48855	6.1	272 273 4997
60	421335	ARS component B		Do 102505	6.1	4692
55	425272	ESTs, Weakly similar to C35826 hypothet	X99977	Hs.103505 Hs.47209	6.1 6.1	1529 1530 5964 2078 6355
	438944	KiAA1444 protein	AA302517	Hs.92732	6.1	3368 7351
	430044	ESTs	AA464510	Hs.152812	6.1	2642 6765
	416640	neuron-specific protein	BE262478	Hs.13406	6.1	1019 5576
65	424440	ESTs	AA340743	Hs.133208	6.1	1951 6266
•	403857	Target Exon	771010110	113.130200	6.1	4730
	406836	immunoglobulin kappa constant	AW514501	Hs.156110	6.0	68 4835
	421878	Homo sapiens cDNA FLJ11643 fis, clone		He 111/06	6.0	1607 6017
	419452	PTK7 protein tyrosine kinase 7	U33635	Hs.90572	6.0	1340 1341 5821
70	407688	Human D9 splice variant B mRNA, comple		Hs.37616	6.0	149 4894
. •	430686	desmoglein 1	NM_001942		6.0	2721 2722 6821
	427375	metallocarboxypeptidase CPX-1	AL035460	Hs.177536	6.0	2320 2321 6522
	451698	endothelin converting enzyme-like 1	Y16187	Hs.26880	6.0	4249 4250 8100
	419956	cadherin 19, type 2	AL137939	Hs.40096	6.0	1398 5865
75	430439	DKFZP434B061 protein	AL133561	Hs.380155	6.0	2695 2696 6803
	425292	37 kDa leucine-rich repeat (LRR) protei	NM_005824		6.0	2083 2084 6359
	400244	Eos Control	000024	Hs.7957	6.0	4606
	407788	S100 calcium-binding protein A2	BE514982	Hs.38991	6.0	161 4905
	406663	immunoglobulin heavy constant mu	U24683	. 10.00000 1	6.0	39 40 4818
80	429903	cyclin-dependent kinase 5, regulatory s	AL134197	Hs.93597	6.0	2616 6746
	426158	v-erb-b2 avian erythroblastic leukemia	NM_001982		6.0	2184 2185 6428
	408829	heparan sulfate (glucosamine) 3-O-sulfo	NM_006042		6.0	264 265 4991
	424326	ADAM-like disintegrin protease, decysin	NM_014479		6.0	1934 1935 6252
0.5	410240	synaptojanin 2	AL157424	Hs.61289	6.0	437 5117
85	408938	ESTs	AA059013	Hs.22607	6.0	279 5002
	409028	Z-band alternatively spliced PDZ-motif	AB014513	Hs.49998	6.0	296 297 5015
		- •			-	

	411372	low density lipoprotein receptor (famil	A11.470C1	Hs.213289	6.0	E3U E100
	420303	KIAA1474 protein	Al147861 AA258282	Hs.278436	6.0	530 5188 · 1443 5900
	407844	ESTs	AW073716	Hs.8037	6.0	168 4912
-	431448	hypothetical protein DKFZp564O1278	AL137517	Hs.306201	6.0	2785 2786 6869
5	415701	gamma-glutamyl hydrolase (conjugase, fo	NM_003878	Hs.78619	6.0	940 941 5514
	428834	ESTs	AW899713	Hs.10338	6.0	2479 6647
	425930 421506	ribosomal protein L18a thymidine kinase 1, soluble	H93691	Hs.163593	6.0	2154 6406
	421308 451149	RNA binding motif protein 88	BE302796 AL047586	Hs.105097 Hs.10283	6.0 5.9	1550 5976 4214 8073
10	448493	ESTs	AI524124	Hs.270307	5.9	4006 7903
- •	437330	Homo sapiens mRNA; cDNA DKFZp761J				3253 7250
	416297	solute carrier family 25 (mitochondrial	AA157634	Hs.79172	5.9	988 5553
	424049	KIAA0624 protein .	AB014524	Hs.138380	5.9	1889 1890 6222
15	433124	hypothetical protein SMAP31	U51712	Hs.13775	5.9	2942 6992
13	422809 414522	hypothetical protein FLJ10549	AK001379	Hs.121028	5.9	1741 1742 6115
	451598	Immunoglobulin J chain ESTs	AW518944 N29102	Hs.76325 Hs.79658	5.9 5.9	827 5428 4241 8093
	414732	minichromosome maintenance deficient (N25102 S AW410976	Hs.77152	5.9	859 5453
	408122	hypothetical protein FLJ10718	Al432652	Hs.42824	5.9	193 4935
20	433001	clone HQ0310 PRO0310p1	AF217513	Hs.279905	5.9	2923 2924 6977
	414763	quiescin Q6	U97276	Hs.77266	5.9	866 867 5459
	434449	hypothetical protein FLJ22041 similar t	AW953484	Hs.3849	5.9	3057 7083
	418394 417891	Kruppel-like factor 5 (intestinal) protein phosphatase 1, regulatory (inhi	AF132818	Hs.84728	5.9	1230 1231 5737
25	434203	hypothetical protein PRO1855	W79410 BE262677	Hs.82887 Hs.283558	5.9 5.9	1164 5687 3033 7066
	443780	activating transcription factor 5	NM_012068		5.9	3643 3644 7606
	439963	platelet-activating factor acetylhydrol	AW247529	Hs.6793	5.9	3441 7423
	431243	syndecan 4 (amphiglycan, ryudocan)	U46455	Hs.252189	5.9	2767 6854
20	427400	hypothetical protein FLJ11939	AW245084	Hs.94229	5.9	2325 6525
30	429207	ESTs	AA447941	Hs.123423	5.9	2532 6686
	417675 410929	similar to murine leucine-rich repeat p ESTs	AI808607	Hs.3781	5.9	1144 5670
	408716	Homo sapiens mRNA for KIAA1769 prote	H47233	Hs.30643 Hs.151714	5.8 5.8	504 5166 251 4981
	432691	mitogen-activated protein kinase 7	U29725	Hs.3080	5.8	2897 2898 6956
35	432247	ESTs	AA531287	Hs.105805	5.8	2859 6923
	43462 9	glioma-amplified sequence-41	AA789081	Hs.4029	5.8	3064 7090
	431070	transcription factor 19 (SC1)	AW408164	Hs.249184	5.8	2744 6837
	426991 436895	Homo sapiens cDNA FLJ10674 fis, clone			5.8	2294 6502
40	413313	carbonic anhydrase XII glycyl-IRNA synthetase	AF037335 NM_002047	Hs.5338	5.8 5.8	3224 3225 7224
	428342	Homo sapiens cDNA FLJ13458 fis, clone		Hs.349283	5.8	699 700 5325 2432 6611
	424441	H2A histone family, member X	X14850	Hs.147097	5.8	1952 1953 6267
	445930	Homo sapiens clone 24747 mRNA seque			5.8	3804 7734
15	402260	NM_001436*:Homo sapiens fibrillarin (FB			5.8	4676
45	422386	heparan suifate (glucosamine) 3-O-suifo		Hs.115830	5.8	1676 1677 6067
	406621 414638	immunoglobulin lambda locus stress-associated endoplasmic reticulum	X57809	Hs,181125	5.8	26 27 4810
	437597	SCG10-like-protein	AA730767	Hs.76698 Hs.285753	5.8 5.8	840 5440 3273 7267
	418110	hypothetical protein FLJ22202	R43523	Hs.217754	5.8	1193 5710
50	422268	maternal G10 transcript	N25485	Hs.330310	5.8	1667 6060
	413566	sprouty (Drosophila) homolog 4	AW604451	Hs.381153	5.8	730 5347
	414695	proteasome (prosome, macropain) subun		Hs.76913	5.8	850 5446
	415200 422627	SWI/SNF related, matrix associated, act		Hs.78202	5.8	920 5496
55	415672	transforming growth factor, beta-induce ESTs	BE336857 N53097	Hs.118787 Hs.193579	5.8 5.8	1715 6097 937 5511
-	419437	леоделіл (chicken) homolog 1	U61262	Hs.90408	5.8	1338 1339 5820
	420531	ribosome binding protein 1 (dog 180kD h	A1652069	Hs.98614	5.8	1459 5911
	433058	Homo saplens, Similar to CG8405 gene p		Hs.380962	5.7	2933 6985
60	430285	ESTs	Al917602	Hs.106440	5.7	2675 6789
OU	400252 409637	NM_004651*:Homo sapiens ubiquitin spe Homo sapiens mRNA; cDNA DKFZp434k		Hs.171501	5.7	4609
	445515	Homo sapiens, clone IMAGE:3457003, m	RNA RE38866	340 NS.3340 <i>1</i> 35 He 179999	5.7	372 5069 3776 7713
	450847	stanniocalcin 1	NM_003155		5.7	4201 4202 8062
~-	415444	solute carrier family 20 (phosphate tra	BE247295	Hs.78452	5.7	926 5502
65	425863	Human unidentified mRNA, partial sequer		Hs.159901	5.7	2152 6404
	448386	KIAA1329 protein	AB037750	Hs.21061	5.7	3997 3998 7896
	408482 429921	adenosine A2b receptor	NM_000676		5.7	226 227 4959
	426968	collagen, type XI, alpha 1 amphiphysin (Stiff-Mann syndrome with b	AA526911	Hs.82772 Hs.173034	5.7 5.7	2620 6749 2290 2291 6499
70	440516	cadherin 2, type 1, N-cadherin (neurona	S42303	Hs.161	5.7	3472 3473 7451
	444783	anillin (Drosophila Scraps homolog), ac	AK001468	Hs.62180	5.7	3722 3723 7672
	424223	putative DNA/chromatin binding motif	AJ243706	Hs.143323	5.7	1915 1916 6240
	450087	MUM2 protein	BE293180	Hs.24379	5.7	4133 8008
75	427550 428977	nuclear RNA helicase, DECD variant of D cyclin B2		Hs.311609	5.7	2342 6538
, 5	428171	ribosomal protein L35	AK001404 AA489323	Hs.194698 Hs.182825	5.7 5.7	2496 6659 2402 6587
	. 422311	cytokine receptor-like factor 1	AF073515	Hs.114948	5.7 5.7	1669 1670 6062
	418533	myosin-binding protein C, fast-type	NM_004533		5.7	1253 1254 5754
00	436396	wingless-type MMTV integration site fam	AI683487	Hs.152213	5.7	3184 7189
80	431457	integrin, alpha 11	NM_012211		5.7	2787 2788 6870
	417920 428520	adenosine monophosphate deaminase 2		Hs.82927	5.7	1167 1168 5690
	420520 441544	hypothetical protein FLJ10097 ESTs	AA331901 AW300043	Hs.184736 Hs.127137	5.7 5.7	2452 6626 3523 7496
0-	429002	junction plakoglobin	AW248439	Hs.2340	5.6	2498 6661
85	420190	hypothetical protein EST00098	Al816209	Hs.95867	5.6	1428 5888
	419745	stug (chicken hamolog), zinc finger pro	AF042001	Hs.93005	5.6	1381 1382 5851

	A10517	Home postero dece 22020 DNA	AF0F040	7 11- 00707		4040 2000
	419517 419073	Homo saptens done 23620 mRNA seque			5.6	1345 5825
	425071	transmembrane receptor Unc5H2 mRNA		Hs.183918	5.6	1296 5786
	407366	deiodinase, iodothyronine, type ti gb:Homo saptens cig33 mRNA, partial ser	NM_013989		5.6	2043 2044 6330
5	428862	SDV (con determining makes V) have 0 (-	APU20942	Hs.17518	5.6	137 4885
,	430281	SRY (sex determining region Y)-box 9 (c CGI-69 protein	Al878842	Hs.237924	5.6 5.6	2483 2484 6650
	437188	KIAA1814 protein	AL080221	Hs.375566	5.6	2674 6788 3240 7238
	442549	TNF receptor-associated factor 4	Al751601	Hs.8375	5.6	3567 7538
	413076	wee1 (S. pombe) homolog	U10564	Hs.75188	5.6	678 679 5310
10	442700	hypothetical protein MGC5576	AA377618	Hs.103834	5.6	
10	408958	signal recognition particle 54kD	T99607	Hs.49346	5.6	3578 7548
	457458	ESTs	AW972881	Hs.276507	5.6	283 5005 4552 8352
	416406	lipoma HMGIC fusion partner-like 2	D86961	Hs.79299-	5.6	1001 1002 5564
•	432559	ESTs	AW452948	Hs.257631	5.6	2886 6947
15	453582	hypothetical protein FLJ11937	AW854339	Hs.33476	5.6	4427 8247
	445363	tubulin-specific chaperone d	NM_005993		5.6	3762 3763 7702
	447343	ESTs, Highly similar to S02392 alpha-2-	AA256641	Hs.236894	5.6	3916 7828
	427498	methyl-CpG binding domain protein 3	NM_003926		5.6	2336 2337 6534
	433212	ESTs	BE218049	Hs.121820	5.6	2956 7001
20	414561	Homo saplens amino acid transport syste		Hs.195155	5.6	831 5432
	407103	hypothetical protein MGC13170	AA424881	Hs.256301	5.6	110 4862
	428976	ras homolog gene family, member I	AL037824	Hs.194695	5.6	2495 6658
	440848	ATPase, H transporting, lysosomal (vacu		Hs.7476	5.6	3488 7464
	427052	CK2 Interacting protein 1; HQ0024c prot	AF168676	Hs.173380	5.5	2298 2299 6506
25	405058	Target Exon			5.5	4769
	428028	interieukin-1 receptor-associated kinas	U52112	Hs.182018	5.5	2392 6578
	447712	kinesin family member C3	BE622873	Hs.23131	5.5	3951 7857
	420842	hypothetical protein MGC10986	AI083668	Hs.50601	5.5	1485 5929
• •	411789	Adlican	AF245505	Hs.72157	5.5	553 554 5207
30	410581	tumor endothelial marker 7/precursor	AA018982	Hs.125036	5.5	478 5146
	420376	protocadherin 18	AL137471	Hs.97266	5.5	1447 1448 5903
	418336	glutathione peroxidase 3 (plasma)	BE179882	Hs.353196	5.5	1219 5730
	424688	myosin, light polypeptide 3, alkali; ve	AA216287	Hs.1815	5.5	1988 6290
~ ~	424481	proteolipid protein 1 (Pelizaeus-Merzba	R19453	Hs.1787	5.5	1960 6272
35	411021	titin	F00055	Hs.172004	5.5	508 5169
	432994	ESTs	AA573452	Hs.150941	5.5	2922 6976
	418004	aldehyde dehydrogenase 3 family, memb	er U37519	Hs.87539	5.5	1174 1175 5695
	438937	ESTs	AW952654	Hs.73964	5.5 .	3367 7350
40	413199	ELAV (embryonic lethal, abnormal vision		Hs.75236	5.5	687 688 5317
40	432406	KIAA0969 protein	Al340571	Hs.343666	5.5	2871 6933
	425262	GS3955 protein	D87119	Hs.155418	5.5	2076 2077 6354
	454071	ESTs	Al041793	Hs.42502	5.5	4487 8295
	422515	multifunctional polypeptide similar to	AW500470	Hs.117950	5.5	1693_6079
15	452281	Homo sapiens cDNA FLJ11041 fis, clone		Hs.28792	5.5	4309 8149
45	418526	solute carrier family 16 (monocarboxyli	BE019020	Hs.85838	5.5	1251 5752
	434078	chromosome 8 open reading frame 4	AW880709	Hs.283683	5.5	3027 7060
	428748	Ksp37 protein	AW593206	Hs.98785	5.5	2468 6638
	422765	baculoviral IAP repeat-containing 5 (su	AW409701	Hs.1578	5.5	1734 6110
50	423915	alpha-actinin-2-associated LIM protein	AF039018	Hs.135281	5.5	1869 1870 6209
50	428291	Interferon stimulated gene (20kD)	AA534009	Hs.183487	5.5	2423 6604
	439999	ras homolog gene family, member E	AA115811	Hs.6838	5.5	3444 7426
	419488	nucleophosmin/nucleoplasmin 3	AA316241	Hs.90691	5.5	1342 5822
	439688		AW445181	Hs.209637	5.5	3418 7401
55	434175 429441	ESTS	AW979081	Hs.165469	5.5	3032 7065
55	443572	lipophilin B (uteroglobin family member	AJ224172	Hs.204096	5.5	2560 2561 6708
	424078	cleavage and polyadenylation specific f paternally expressed 3	AA025610	Hs.9605	5.5	3625 7589
	450998	splicing factor 3b, subunit 4, 49kD	AB006625 BE387614	Hs.139033	5.5	1893 1894 6225
	400259	NM_017432*:Homo sapiens prostate turn		Hs.25797	5.4 5.4	4205 8065
60	407785	ESTs, Weakly similar to A43932 mucin 2		Hs.19555 Hs.98279	5.4	4610
-	435854	putative ankyrin-repeat containing prot	AJ278120	Hs.4996	5.4	160 4904 3157 3158 7166
	457211	ESTs, Weakly similar to S51797 vasodila		Hs.32399	5.4	4543 8344
	419682	paired-like homeodomain transcription f	H13139	Hs.92282	5.4	1368 5841
	407178	AP-2 beta transcription factor	AA195651	Hs.352312	5.4	118 4870
65	416065	· · · · · · · · · · · · · · · · · · ·	BE267931	Hs.78996	5.4	968 5536
	418532	neurotrophic tyrosine kinase, receptor,	F00797	Hs.374321	5.4	1252 5753
	427337	Fc fragment of IgG, low affinity IIIb,	Z46223	Hs.176663	5.4	2318 2319 6521
	448517	hypothetical protein FLJ22649 similar t	AA082750	Hs.42194	5.4	4009 7906
	452401	tumor necrosis factor, alpha-induced pr	NM_007115		5.4	4325 4326 8161
70	450414	KIAA1716 protein	A1907735	Hs.21446	5.4	4165 8033
	445932	Homo sapiens clone 24859 mRNA seque			5.4	3805 7735
	427923	FGENESH predicted 11 TM protein	AW274357	Hs.301406	5.4	2385 6572
	430130	Homo sapiens mRNA; cDNA DKFZp7610	02121 AL137	311 Hs.2340	74 5.4	2650 2651 6772
75	428121	KIAA0284 protein	AB006622	Hs.182536	5.4	2398 2399 6584
75	408660	ESTs, Moderately similar to PC4259 ferr	AA525775	Hs.89040	5.4	247 4977
	410011	PFTAIRE protein kinase 1	AB020641	Hs.57856	5.4	406 407 5096
	425616	nuclear matrix protein NMP200 related t	BE561911	Hs.173980	5.4	2121 6384
	442578	hypothetical protein FLJ10781	AK001643	Hs.8395	5.4	3572 3573 7543
90	414751	choline kinase	AL120829	Hs.77221	5.4	863 5456
80	437763	tissue inhibitor of metalloproteinase 1	AA469369	Hs.5831	5.4	3285 7278
	427674	H2B histone family, member Q	NM_003528	Hs.2 178	5.4	2359 2360 6553
	404458	CX000877*:gi 11877268 emb CAC18893.	1[(5.4	4749
	450296	hepatocyte growth factor-regulated tyro	AL041949	Hs.24756	5.4	4153 8023
85	419236	Homo sapiens cDNA FLJ11481 fis, clone		Hs.135159	5.3	1321 5805
OJ	435256	cytokine-like protein C17	AF193766	Hs.13872	5.3	3116 3117 7133
	447436	Homo sapiens cDNA: FLJ21449 fis, clone	A1932971	Hs.18593	5.3	3928 7837

	400235	NM_005336:Homo saplens high density lij	p	Hs.177516	5.3	4604
	435593	DKFZP586J1624 protein	R88872	Hs.4964	5.3	3141 7153
	441362	RAD51 (S. cerevisiae) homolog (E cofi R		Hs.23044	5.3	3512 7486
5	424971	tumor suppressing subtransferable candi		Hs.154036	5.3	2035 6324
,	426514 451681	bone morphogenetic protein 7 (osteogen) ESTs, Weakly similar to AA64_HUMAN 64		Hs.170195	5.3 5.3	2246 6470
	445302	hypothetical protein FLJ10675	AK001537	Hs.255950 Hs.12488	5.3	4245 8097 3757 3758 7699
	432504	oxygen regulated protein (150kD)	AL121015	Hs.277704	5.3	2879 6941
	413762	FK506-binding protein 4 (59kD)	AW411479	Hs.848	5.3	738 5354
10	453905	LIM domain kinase 1	NM_002314		5.3	4462 4463 8276
	419693	FXYD domain-containing lon transport re		Hs.301350	5.3	1371 5844
	421778	actin related protein 2/3 complex, subu	AA428000	Hs.283072	5.3	1591 6003
	449129	ESTs —	AI631502	Hs.258949	5.3	4066 7950
15	432647 406830	fibroblast growth factor receptor 2 (ba peptidylprolyl isomerase A (cyclophilin	AI807481	Hs.278581	5.3	2894 6953 67 4834
13	452410	Homo saplens mRNA; cDNA DXFZp434E	Al829848 2321 / Al 1336	Hs.342389	5.3 5.3	4328 4329 8163
	418045	ESTs	Al972919	Hs.118837	5.3	1183 5701
	430326	DKFZP727I051 protein	BE251590	Hs.239370	5.3	2679 6793
••	419088	integrin, beta 8	Al538323	Hs.380684	5.3	1303 5791
20	416860	actin filament associated protein	D25248	Hs.80306	5.3	1043 5593
	456181	ras inhibitor	L36463	Hs.1030	5.3	4516 4517 8321
	430838	hypothetical protein FLJ12015	N46664	Hs.169395	5.3	2733 6829
	439053 444354	chaperonin containing TCP1, subunit 2 (hypothetical protein R33729_1	BE244588	Hs.6456 Hs.10927	5.3 5.3	3374 7357
25	421846	protein kinase C substrate 80K-H	AA847582 AA017707	Hs.1432	5.3	3694 7649 1601 6012
	425703	collagen, type VI, alpha 2	X06195	Hs.159263	5.3	2126 2127 6387
	433180	K562 cell-derived leucine-zipper-like p	AB038651	Hs.31854	5.3	2949 2950 6997
	408826	Homo sapiens clone HB-2 mRNA sequen-			5.3	263 4990
20	428227	small inducible cytokine subfamily B (C	AA321649	Hs.2248	5.3	2410 6593
30	431565	butyrate-induced transcript 1	AF161470	Hs.260622	5.3	2795 2796 6876
	422363	replication factor C (activator 1) 3 (3	T55979	Hs.115474	5.3	1673 6065
	418870 417089	chemokine (C-X-C motif), receptor 4 (fu Homo sapiens cDNA: FLJ21909 fis, clone	AF147204	Hs.89414 Hs.18612	5.3	1279 1280 5773
	406885	gb:Human mRNA for pre-mRNA splicing f		NS. 10012	5.3 5.3	1077 5619 73 74 4840
35	446157	Homo sapiens cDNA: FLJ22562 fis, clone		Hs.131740	5.3	3821 7749
	404208	C6001282:gi 4504223 ref NP_000172.1 g			5.3	4740
	404854	Target Exon	•		5.3	4762
	445875	Homo sapiens clone 24453 mRNA seque		4 Hs.13410	5.3	3801 7731
40	448603	DNA segment on chromosome X and Y (u		Hs.21595	5.3	4017 4018 7911
40	417079	interleukin 1 receptor antagonist	U65590	Hs.81134	5.3	1073 1074 5616
	438393 426613	Homo sapiens cDNA: FLJ22272 fis, clone		Hs.50740	5.3	3319 7309
	412564	hydroxyacyl-Coenzyme A dehydrogenase cardiac ankyrin repeat protein	X83703	Hs.171280 Hs.355934	5.3 5.3	2257 2258 6476 606 607 5251
	441389	endocytic receptor (macrophage mannos		Hs.7835	5.3	3514 3515 7488
45	403171	C2001472*:gi[5809678[gb]AAB41848.2] (5.2	4710
	410223	calsequestrin 1 (fast-twitch, skeletal	S73775	Hs.60708	5.2	433 434 5115
	425848	valyl-tRNA synthetase 2	BE242709	Hs.159637	5.2	2150 6402
	415697	DKFZP566I1024 protein	Al365603	Hs.279696	5.2	939 5513
50	449644	ESTs	AW960707	Hs.8935	5.2	4104 7984
50	.447519 421920	ESTs gamma-aminobutyric acid (GABA) receptor	U46258	Hs.339665 Hs.1438	5.2 5.2	3936 7844
	435060	ESTs, Weakly similar to fork head like	Al422719	Hs.120873	5.2 5.2	1614 6022 3101 7120
	449139	phenylalanine-tRNA synthetase-like	BE268315	Hs.23111	5.2	4067 7951
	428046	ESTs, Moderately similar to I38022 hypo		Hs.337534	5.2	2393 6579
55	414267	dimethylarginine dimethylamlnohydrolase		Hs.303180	5.2	795 5402
	424291	ephrin-B1	AL120051	Hs.144700	5.2	1931 6249
	425712	ESTs, Moderately similar to ALU1_HUMA			5.2	2130 6389
	419285	KIAA0062 protein	D31887	Hs.89868	5.2	1325 1326 5809
60	406636 408212	gb:Homo sapiens (clone WR4.12VL) anti- hypothetical protein	AA297567	Hs.43728	5.2 5.2	32 33 4814
00	433320	ESTs, Highly similar to CTXN RAT CORT		Hs.250879	5.2 5.2	206 4945 2969 7010
	440700	guanine nucleotide binding protein (G p		Hs.296184	5.2	3481 7458
	402855	NM_001839*:Homo sapiens calponin 3, a			5.2	4694
c=	414175	hypothetical protein DKFZp761D112	A1308876	Hs.103849	5.2	786 5394
65	413815	discoldin domain receptor family, membe		Hs.75562	5.2	745 5360
	428865	BarH-like homeobox 1	BE544095	Hs.164960	5.2	2485 6651
	450701	hypothetical protein XP_098151 (leucine		Hs.288467	5.2	4183 8048
	424442 450680	ESTs, Weakly similar to ZN91_HUMAN Z Homo saplens clone 25194 mRNA seque			5.2	1954 6268
70	438619	TU12B1-TY protein	AB032773	Hs.374350	5.2 5.2	4181 8046 3340 3341 7327
. •	428727	general transcription factor IIH, polyp	AF078847	Hs.78452	5.2	2466 2467 6637
	422175	ESTs, Highly similar to T00391 hypothet		Hs.6382	5.2	1657 6053
	408604	ESTs	D51408	Hs.21925	5.1	243 4973
75	404815	ENSP00000251989*:DJ100N22.1 (NOVE			5.1	4761
75	416700	cathepsin D (lysosomal aspartyl proteas		Hs.343475	5.1	1023 5579
	442285	uncharacterized hypothalamus protein HT		Hs.374989	5.1	3554 7526
	430333 433882	TIA1 cytotoxic granule-associated RNA-b		Hs.239489	5.1	2680 2681 6794
	433882 415705	procollagen-proline, 2-oxoglutarate 4-d coilin	U90441 U06632	Hs.3622	5.1	3012 3013 7047
80	450983	ERO1 (S. cerevisiae)-like	AA305384	Hs.966 Hs.25740	5.1 5.1	943 944 5516 4204 8064
	426138	Homo saplens clone 23798 and 23825 ml		Hs.167036	5.1	2178 6423
	418607	KIAA1402 protein	AL137426	Hs.86392	5.1	1260 5759
	421857	hypothetical protein FLJ23322	AW601852	Hs.285932	5.1	1604 6014
85	424375	Homo sapiens clone 24820 mRNA seque	nce AF07054			1939 6256
02	449475	hypothetical protein PP1057	Al348027	Hs.129826	5.1	4091 7973
	408196	SRY (sex determining region Y)-box 22	AL034548	Hs.43627	5.1	199 200 4940

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	437044	differentially expressed in Fancon's a	AL035864	Hs.69517	5.1	3233 7232		
	436291	protein regulator of cytokinesis 1	BE568452 AF120103	Hs.344037 Hs.197366	5.1 5.1	3180 7185 2519 2520 6677		
	429150	smoothened (Drosophila) homolog Fanconi anemia, complementation group		Hs.8047	5.1	3542 7514		
5	441954 414465	ribosomal protein S5	AW270645	Hs.76194	5.1	820 5423		
J	421140	signal sequence receptor, delta (transl	AA298741	Hs.102135	5.1	1509 5948		
	432731	fibronectin 1	R31178	Hs.287820	5.1	2904 6961		
	427157	thymine-DNA glycosylase	U51166	Hs.173824	5.1	2305 2306 6511		
	437191	serine protease inhibitor, Kazal type,		Hs.3 31555	5.1	3241 3242 7239		•
10	442173	KIAA0144 gene product	N76101	Hs.8127	5.1 5.1	3552 7524 1186 5703		
	418059	gb:zn56d05.s1 Stratagene muscle 93720	AB033041	Hs.137507	5.1	1883 1884 6218		
	424005	vang (van gogh, Drosophila)-like 2 core histone macroH2A2.2	AF151534	Hs.92023	5.1	3068 3069 7093		
.	434669 433819	ESTs	AW511097	Hs.110069	5.1	3007 7042		
15	435056	glycoprotein M6B	AW023337	Hs.5422	5.1	3100 7119		
13	431205	tropomodulin 4 (muscle)	AA194560	Hs.250763	5.1	2761 6849		
	418867	msh (Drosophila) homeo box homolog 2	D31771	Hs.89404	5.1	1277 1278 5772		
	406851	major histocompatibility complex, class	AA609784	Hs.352392	5.1	71 4838		
00	410687	lysyl oxidase-like 1	U24389	Hs.65436	5.1	485 486 5153 595 5242		
20	412490	Homo sapiens cDNA: FLJ22528 fis, clon	AA312329	Hs.288850 Hs.42331	5.1 5.1	188 4930		
	408056	ephrin-A4	A1768015	Hs.352375	5.1	586 5235		
	412446 432370	ESTs N-acetylneuraminic acid phosphate synt		Hs.274424	5.1	2867 6930		
	448140	BCM-like membrane protein precursor	AF146761	Hs.20450	5.1	3980 3981 7882		
25	427584	v-myb avian myeloblastosis viral oncoge	BE410293	Hs.179718	5.1	2348 6542		•
	442061	abl-interactor 12 (SH3-containing prote	AA774284	Hs.285728	5.1	3547 7519		
	417709	KIAA0247 gene product	D87434	Hs.82426	5.1	1149 1150 5674		
	444019	putative nucleolar RNA helicase	BE173977	Hs.10098	5.1	3670 7629		
20	433012	ATX1 (antioxidant protein 1, yeast) hom		Hs.279910 Hs.242947	5.1 5.1	2925 2926 6978 4084 7966		
30	449353	ESTs	AA001220 · U44385	Hs.6441	5.1	3360 3361 7344		
	438866 434355	tissue inhibitor of metalloproteinase 2 ESTs	AA630865	Hs.186556	5.1	3049 7076		
	434355 417796	ESTs	AA206141	Hs.367818	5.1	1159 5682		
	410279	hypothetical protein FLJ14117	BE271977	Hs.61809	5.1	447 5124		
35	440028	ESTs. Weakly similar to T17227 hypoth	et AW473675	Hs.367649		3446 7428		
	407241	nh:Human omega light chain protein 14	.1 M34516		5.1	130 131 4880		
	421566	early growth response 2 (Krox-20 (Dros	o NM_00039	9 Hs.1 395	5.1	1563 1564 5984 4600		
	400220	Eos Control	ATENNOEN	Hs.155560		4004 7901		
40	448425	ESTs	Al500359 AF151020	Hs.371249 Hs.181444		2390 2391 6577		
40	428013	hypothetical protein NM_022170":Homo sapiens Williams-E		16.101777	5.0	4779		
	405387 439070	ESTs	A1733278	Hs.7621	5.0	3375 7358		
	436543	integrin beta 4 binding protein		2 Hs.5 215	5.0	3198 3199 7201		
	450065	transcriptional co-activator with PDZ-b	AL050107	Hs.24341	5.0	4130 4131 8006		
45	433043	lymphold nuclear protein (LAF-4) mRN.		Hs.125019		2930 6982		
	417166	Paired box protein Pax-3	AA431323		5.0	1088 5628 3737 7683		
	444984	fatty acid desaturase 1	H15474	Hs.132898		1634 6036		•
	422066	malate dehydrogenase 2, NAD (mitoch	U52682	Hs.82132	5.0	1123 1124 5656		
50	417437 403081	interferon regulatory factor 4 NM_003319*:Homo saplens titin (TTN)		113,02102	5.0	4704		
50	439453	thyroid hormone receptor interactor 13	BE264974	Hs.6566	5.0	3399 7382		
	425322	protein kinase, DNA-activated, catalyti	U63630	Hs.155637	7 5.0	2089 2090 6363	•	
	434837	lysophosphalidic acid acyltransferase-	d AF156776	Hs.353175		3080 3081 7102		
	414420	immediate early response 3	AA043424		5.0	814 5418		•
55	400300	HER2 receptor tyrosine kinase (c-erb-)		Hs.323910		8 9 4619		
	447898	6.2 kd protein	AW969631	3 Hs.380920 Hs.24048		3966 7868 651 5286		
	412819	FK506 binding protein precursor Homo sapiens cDNA FLJ11309 fis, clo	T25829	Hs.28005		4290 8132		
	452110	hypothetical protein FLJ10986	BE274530			2852 6917		
60	432211 457060	beta tubulin 1, class VI	AA402364			4538 8339		
00	430152	aquaporin 3	AB001325			2653 2654 6774		
	409299	small nuclear ribonucleoprotein D2 po	ly AA045650) Hs.53125	5.0	339 5045		
	443802	KIAA1291 protein	AW50492		5.0	3647 7609		
	445162	piccolo (presynaptic cytomatrix proteir	AB011131			3749 3750 7693		
65	417115	small nuclear ribonucleoprotein polype	ep AW95279			1081 5622 399 5090		
	409944	four and a half LIM domains 3	BE297925 X98834	5 Hs.57687 Hs.79971		1032 5585		
	416801	sal (Drosophila)-like 2 sine oculis homeobox (Drosophila) ho				3748 7692		
	445160 429139	ESTs	F09092	Hs.66087		2517 6675		
70	445462	hypothetical protein MGC3077	AA37877			3771 7709		
, ,	440402	n, posiciona promissioni in a second						
	TABLE 8							
75	Pkey:	Unique Eos probeset identifier	number					
75	CAT numi		•					
	Accession	General Scression numbers						
	Pkey	CAT Number Accession						
	406782	n n AA430373 AA968771						
80	406636	n n L12064 L12083 L12069	5 L12075 L120	66 L12085 L1	2072 L12	2082 L12081 L12062 L12080		
	418059	1164438_1 AA211586 F35799 F29	1720 AW93740	8 AW937387	AA21164	1		
		_						
	TABLE 8	Unique number corresponding	in an Ene and	hocol				
85	Pkey:	Segrence source. The 7 dial	numbers in th	is column are:	Genhank	Identifier (GI) numbers. "Dunh	am I. et al.º refers t	o the publication entitled
0,5	Ref:	The DNA						•
		1100101						

		sequence	of human chromosome	22.° Dunham	l. et al., Natur	(1999) 402:4	89-495.			
	Strand:	indicates	DNA Strang from which a	exans were are	wiirlori	•				
	Nt_position:	inuicates	nucleotide positions of p	redicted exons	•					
5	Pkey	Ref	Strand Ni	position						
-	405001	6015406		4646-104819						
	404977	3738341		081-43229		•				
	401781	7249190		215-83435,83	531-83656,83	740-83901,84	23			
1Λ	405443	7408143		716-90887,10						
10	403088	8954241		9894-170193,	170504-17080	6				
	402992	7767907		2137-42515		. 				
	401780 401673	7249190		397-28617,28			41			
	401797	7689903 6730720		2587-122705, 73-7118	122/65-12304	17		•		
15	401566	8469090		5277-96420,96	070.0716A					
	400499	9796071		8495-148806	313-31100					
	405516	9454624		2707-112876,	113676-11384	3 4				
	404030	7671252		9362-151749		•				
20	402810	6010110	Plus 12	715-12856,13	527-13643					
20	403857	7708910		24-3408						
	402260	3399665		3765-113910,	115653-11576	i5,116808-116	i94			
	405058	7655685		0740-151556						
	404458 404208	7770571 3080468		710-36276						
25	404854	7143420		15346-105573 1260-14537						
	403171	9838164		502-74703						
	402855	9662953		763-59909						
	404815	5911819		494-64691						
~ ^	405387	6587915	Minus 37	69-3833,5708	-5895					
30	403081	8954241		5749-156048,		i9				
	TABLE 9A		•							
	I ABLE SA									
35	Pkey:	Unique Eos prot	eset identifier number							
		Unigene gene til								
	Accession:		sion number, Genbank a	ocession numb	er					
	UniGene:	Unigene number								
40	RATIO:	95th percentile of	f malignant fibrous histio	cyloma Als div	ided by the 50	th percentile o	of normal body tissue	e Als, where the	10th percentile	of normal
40	050 ID "	tissue Als was s	ubtracted from both the n	umerator and	denominator				•	
	SEQ ID#:	nucleic acid and	protein sequences provide	ded on CD for	search purpos	8 S				
								••	•	
	Pkev	Gene Name		Accession	HniGene	PATIO	SEO ID#			
	Pkey 426300	Gene Name delta-like homok	og (Drosophila)	Accession	UniGene Hs 169228	RATIO	SEQ ID#			-
45	Pkey 426300 404977	delta-like homok		Accession U15979	UniGene Hs.169228	22.5	2196 2197 6437		•	•
45	426300	delta-like homok	th factor 2 (somatomed				2196 2197 6437 4766			-
45	426300 404977	delta-like homole Insulin-like grow mucin 4, trached	th factor 2 (somatomed	U15979	Hs.169228	22.5 21.4	2196 2197 6437			-
45	426300 404977 422487 406687 418338	delta-like homole Insulin-like grow mucin 4, trached matrix metallopri neuronal pentras	th factor 2 (somatomed obronchial oteinase 11 (stromelysi	U15979 AJ010901 M31126 NM_002522	Hs.169228 Hs.198267 Hs.352054	22.5 21.4 19.9	2196 2197 6437 4766 1689 1690 6076			-
	426300 404977 422487 406687 418338 409633	delta-like homole Insulin-like grow mucin 4, trached matrix metallopn neuronal pentras ESTs	th factor 2 (somatomed obronchial oteinase 11 (stromelysi dn I	U15979 AJ010901 M31126 NM_002522 AW449822	Hs.169228 Hs.198267 Hs.352054 Hs.8 4154 Hs.55200	22.5 21.4 19.9 18.3 16.5 16.4	2196 2197 6437 4766 1689 1690 6076 49 50 4823 1220 1221 5731 371 5068			-
45 50	426300 404977 422487 406687 418338 409633 429359	delta-like homolo Insulin-like grow mucin 4, trached matrix metallopm neuronal pentras ESTs matrix metallopm	th factor 2 (somatomed obronchial oteinase 11 (stromelysi dn 1 oteinase 14 (membrane-i	U15979 AJ010901 M31126 NM_002522 AW449822 W00482	Hs.169228 Hs.198267 Hs.352054 Hs.8 4154 Hs.55200 Hs.2399	22.5 21.4 19.9 18.3 16.5 16.4 16.2	2196 2197 6437 4766 1689 1690 6076 49 50 4823 1220 1221 5731 371 5068 2551 6702			-
	426300 404977 422487 406687 418338 409633 429359 450701	delta-like homole Insulin-like grow mucin 4, trached matrix metallopm neuronal pentras ESTs matrix metallopm hypothetical pro	th factor 2 (somatomed obronchial oteinase 11 (stromelysi dn l oteinase 14 (membrane- tein XP_098151 (leucine	U15979 AJ010901 M31126 NM_002522 AW449822 W00482 H39960	Hs.169228 Hs.198267 Hs.352054 Hs.8 4154 Hs.55200 Hs.2399 Hs.288467	22.5 21.4 19.9 18.3 16.5 16.4 16.2 15.8	2196 2197 6437 4766 1689 1690 6076 49 50 4823 1220 1221 5731 371 5068 2551 6702 4183 8048			-
	426300 404977 422487 406687 418338 409633 429359 450701 425247	delta-like homola Insulin-like grow mucin 4, trachet matrix metallopr neuronal pentra: ESTs matrix metallopr hypothetical prof matrix metallopr matrix metallopr	th factor 2 (somatomed obronchial oteinase 11 (stromelysi dn l oteinase 14 (membrane- tein XP_098151 (leucine oteinase 11 (stromelysi	U15979 AJ010901 M31126 NM_002522 AW449822 W00482 H39960 NM_005940	Hs.169228 Hs.198267 Hs.352054 Hs.8 4154 Hs.55200 Hs.2399 Hs.288467 Hs.1 55324	22.5 21.4 19.9 18.3 16.5 16.4 16.2 15.8 15.1	2196 2197 6437 4766 1689 1690 6076 49 50 4823 1220 1221 5731 371 5068 2551 6702 4183 8048 2072 2073 6351			-
	426300 404977 422487 406687 418338 409633 429359 450701 425247 444670	delta-like homola Insulin-like grow mucin 4, tracher matrix metallopr neuronal pentras ESTs matrix metallopr hypotheticai pro matrix metallopr hypotheticai pro	th factor 2 (somatomed obronchial obtainase 11 (stromelysi din l obtainase 14 (membrane-lein XP_098151 (leucine obtainase 11 (stromelysi lein MGC5370	U15979 AJ010901 M31126 NM_002522 AW449822 W00482 H39960 NM_005940 H58373	Hs.169228 Hs.198267 Hs.352054 Hs.8 4154 Hs.55200 Hs.2399 Hs.288467 Hs.1 55324 Hs.332938	22.5 21.4 19.9 18.3 16.5 16.4 16.2 15.8 15.1	2196 2197 6437 4766 1689 1690 6076 49 50 4823 1220 1221 5731 371 5068 2551 6702 4183 8048 2072 2073 6351 3714 7666			-
50	426300 404977 422487 406687 418338 409633 429359 450701 425247 444670 422867	delta-like homole Insulin-like grow mucin 4, trachec matrix metallopr neuronal pentras ESTs matrix metallopr hypothetical proi matrix metallopr hypothetical proi cartilage oligome	th factor 2 (somatomed obronchial obtainase 11 (stromelysi din l obeimase 14 (membrane-lein XP_098151 (leucine obeimase 11 (stromelysi lein MGC5370 eric matrix protein (ps	U15979 AJ010901 M31126 NM_002522 AW449822 W00482 H39960 NM_005940 H58373 L32137	Hs.169228 Hs.198267 Hs.352054 Hs.8 4154 Hs.55200 Hs.2399 Hs.288467 Hs.1 55324 Hs.332938 Hs.1584	22.5 21.4 19.9 18.3 16.5 16.4 16.2 15.8 15.1 14.4 13.6	2196 2197 6437 4766 1689 1690 6076 49 50 4823 1220 1221 5731 371 5068 2551 6702 4183 8048 2072 2073 6351 3714 7666 1751 1752 6122			-
	426300 404977 422487 406687 418338 409633 429359 450701 425247 444670 422867 420162	delta-like homole Insulin-like grow mucin 4, trachet matrix metallopn neuronal pentras ESTs matrix metallopn hypothetical prof matrix metallopn matrix metallopn cyclin-dependen cyclin-dependen	th factor 2 (somatomed obronchial obtainase 11 (stromelysi din l obtainase 14 (membranelein XP_098151 (leucine oteimase 11 (stromelysi lein MGC5370 obric matrix protein (ps t kinase 4	U15979 AJ010901 M31126 NM_002522 AW449822 W00482 H39960 NM_005940 H58373 L32137 BE378432	Hs.169228 Hs.198267 Hs.352054 Hs.8 4154 Hs.55200 Hs.2399 Hs.288467 Hs.1 55324 Hs.1584 Hs.1584 Hs.95577	22.5 21.4 19.9 18.3 16.5 16.4 16.2 15.8 15.1 13.6 13.5	2196 2197 6437 4766 1689 1690 6076 49 50 4823 1220 1221 5731 371 5068 2551 6702 4183 8048 2072 2073 6351 3714 7666 1751 1752 6122 1422 5883			•
50	426300 404977 422487 406687 418338 409633 429359 450701 425247 444670 422867	delta-like homole Insulin-like grow mucin 4, trachet matrix metallopn neuronal pentras ESTs matrix metallopn hypothetical prof matrix metallopn matrix metallopn cyclin-dependen cyclin-dependen	th factor 2 (somatomed obronchial obtainase 11 (stromelysi din l obeimase 14 (membrane-lein XP_098151 (leucine obeimase 11 (stromelysi lein MGC5370 eric matrix protein (ps	U15979 AJ010901 M31126 NM_002522 AW449822 W00482 H39960 NM_005940 H58373 L32137 BE378432 AL080235	Hs.169228 Hs.198267 Hs.352054 Hs.352054 Hs.55200 Hs.2399 Hs.288467 Hs.1 55324 Hs.332938 Hs.1584 Hs.95577 Hs.35861	22.5 21.4 19.9 18.3 16.5 16.4 16.2 15.8 15.1 14.4 13.6 13.5 13.3	2196 2197 6437 4766 1689 1690 6076 49 50 4823 1220 1221 5731 371 5068 2551 6702 4183 8048 2072 2073 6351 3714 7666 1751 1752 6122 1422 5883 4449 4450 8266			•
50	426300 404977 422487 406687 418338 409633 429359 450701 425247 444670 422867 420162 453857	delta-like homole Insulin-like grow mucin 4, tracher matrix metallopm neuronal pentra: ESTs matrix metallopm hypothetical prot matrix metallopm hypothetical prot cartilage oligome cyclin-dependen Ras-induced ser	th factor 2 (somatomed obronchial oteinase 11 (stromelysidin) oteinase 14 (membrane-lein XP_098151 (leucine oteinase 11 (stromelysiden MGC5370 eric matrix protein (ps t kinase 4 eescence 1 (RIS1)	U15979 AJ010901 M31126 NM_002522 AW449822 W00482 H39960 NM_005940 H58373 L32137 BE378432	Hs.169228 Hs.198267 Hs.352054 Hs.8 4154 Hs.55200 Hs.2399 Hs.288467 Hs.1 55324 Hs.1584 Hs.1584 Hs.95577	22.5 21.4 19.9 18.3 16.5 16.4 16.2 15.8 15.1 13.6 13.5	2196 2197 6437 4766 1689 1690 6076 49 50 4823 1220 1221 5731 371 5068 2551 6702 4183 8048 2072 2073 6351 3714 7666 1751 1752 6122 1422 5883 4449 4450 8266 1755 6124			-
50 55	426300 404977 422487 406687 418338 409633 429359 450701 425247 444670 422867 420162 453857 422887 412709 430044	delta-like homole Insulin-like grow mucin 4, trachet matrix metallopr neuronal pentras ESTs matrix metallopr hypothetical proi matrix metallopr hypothetical proi cartilage oligome cyclin-dependen Ras-Induced ser ESTs KIAA0027 protei	th factor 2 (somatomed obronchial obtainese 11 (stromelysi din l obtainase 14 (membrane-lein XP_098151 (leucine obtainase 11 (stromelysi lein MGC5370 orto matrix protein (ps t kinase 4 lescence 1 (RIS1)	U15979 AJ010901 M31126 NM_002522 AW449822 W00482 H39960 NM_005940 H58373 L32137 BE378432 AL080235 AI751848 AL022327 AA464510	Hs.169228 Hs.198267 Hs.352054 Hs.8 4154 Hs.55200 Hs.2399 Hs.288467 Hs.155224 Hs.332938 Hs.1584 Hs.95577 Hs.35861 Hs.49215	22.5 21.4 19.9 18.3 16.5 16.4 16.2 15.1 14.4 13.6 13.5 13.3	2196 2197 6437 4766 1689 1690 6076 49 50 4823 1220 1221 5731 371 5068 2551 6702 4183 8048 2072 2073 6351 3714 7666 1751 1752 6122 1422 5883 4449 4450 8266			-
50	426300 404977 422487 406687 418338 409633 429359 450701 425247 444670 422867 420162 453857 422887 412709 430044 408202	delta-like homole Insulin-like grow mucin 4, trachet matrix metallopr neuronal pentra: ESTs matrix metallopr hypothetical pro matrix metallopr myothetical pro cartilage oligomic cyclin-dependen Ras-induced ser ESTs KIAA0027 protei ESTs DKFZP586L151	th factor 2 (somatomed obronchial obtainase 11 (stromelysi din l obtainase 14 (membrane-lein XP_098151 (leucine oteinase 11 (stromelysi lein MGC5370 orto matrix protein (ps t kinase 4 nescence 1 (RIS1) n protein	U15979 AJ010901 M31126 NM_002522 AW449822 W00482 H39960 NM_005940 H56373 L32137 BE378432 AL080235 AI751848 AL022327 AA464510 AA227710	Hs.169228 Hs.198267 Hs.352054 Hs.8 4154 Hs.55200 Hs.2399 Hs.288467 Hs.155324 Hs.352338 Hs.1584 Hs.95577 Hs.35861 Hs.49215 Hs.74518 Hs.74518 Hs.152212 Hs.43658	22.5 21.4 19.9 18.3 16.5 16.4 16.2 15.8 15.1 13.6 13.5 13.3 13.3 13.3 13.2 13.0 12.7	2196 2197 6437 4766 1689 1690 6076 49 50 4823 1220 1221 5731 371 5068 2551 6702 4183 8048 2072 2073 6351 3714 7666 1751 1752 6122 1422 5883 4449 4450 8266 1755 6124 631 632 5269 2642 6765 202 4942			-
50 55	426300 404977 422487 406687 418338 409633 429359 450701 425247 444670 422867 420162 453857 422887 412709 430044 408202 413554	delta-like homolinsulin-like grow mucin 4, trachec matrix metallopr neuronal pentra: ESTs matrix metallopr hypothetical proi matrix metallopr hypothetical proi cartilage oligomi cyclin-depender Ras-induced ser ESTs KIAA0027 protei ESTs DKFZP586L151 secretogranin II	th factor 2 (somatomed obronchial obtainase 11 (stromelysi din I obtainase 14 (membrane-lein XP_098151 (leucine oteinase 11 (stromelysi dein MGC5370 eric matrix protein (ps t kinase 4 nescence 1 (RIS1) n protein (chromogranin C)	U15979 AJ010901 M31126 NM_002522 AW449822 W00482 H39960 NM_005940 H58373 L32137 BE378432 AL080235 AI751848 AL022327 AA464510 AA227710 AA319146	Hs.169228 Hs.198267 Hs.352054 Hs.8 4154 Hs.55200 Hs.2399 Hs.288467 Hs.155324 Hs.332938 Hs.1584 Hs.95577 Hs.35861 Hs.49215 Hs.74518 Hs.152812 Hs.43658 Hs.75426	22.5 21.4 19.9 18.3 16.5 16.4 16.2 15.1 14.4 13.6 13.5 13.3 13.3 13.2 13.0 12.7	2196 2197 6437 4766 1689 1690 6076 49 50 4823 1220 1221 5731 371 5068 2551 6702 4183 8048 2072 2073 6351 3714 7666 1751 1752 6122 1422 5883 4449 4450 8266 1755 6124 631 632 5269 2642 6765 202 4942 729 5346			-
50 55	426300 404977 422487 406687 418338 409633 429359 450701 425247 444670 422867 420162 453857 412709 430044 408202 413554 415166	delta-like homolinsulin-like grow mucin 4, trachec matrix metallopr neuronal pentra: ESTs matrix metallopr hypothetical prolativa metallopr hypothetical procartilage oligomicyclin-dependen Ras-induced ser ESTs KIAA0027 protei ESTs DKFZP586L151 secretogranin II carboxypeptidas	th factor 2 (somatomed obronchial obtainase 11 (stromelysi din l obtainase 14 (membrane-lein XP_098151 (leucine obtainase 11 (stromelysi lein MGC5370 eric matrix protein (ps t kinase 4 nescence 1 (RIS1) n protein (chromogranin C) e Z	U15979 AJ010901 M31126 NM_002522 AW449822 W00482 H39960 NM_005940 H58373 L32137 BE378432 AL080235 AI751848 AL022327 AA464510 AA227710 AA319146 NM_003652	Hs.169228 Hs.198267 Hs.352054 Hs.8 4154 Hs.55200 Hs.2399 Hs.288467 Hs.155224 Hs.332938 Hs.1584 Hs.95577 Hs.35861 Hs.49215 Hs.74518 Hs.152812 Hs.43658 Hs.152812 Hs.43658 Hs.75426 Hs.78426	22.5 21.4 19.9 18.3 16.5 16.4 16.2 15.8 15.1 14.4 13.6 13.3 13.3 13.2 13.0 12.7 12.6 12.3	2196 2197 6437 4766 1689 1690 6076 49 50 4823 1220 1221 5731 371 5068 2551 6702 4183 8048 2072 2073 6351 3714 7666 1751 1752 6122 1422 5883 4449 4450 8266 1755 6124 631 632 5269 2642 6765 202 4942 729 5346 913 914 5491	·		-
50 55	426300 404977 422487 406687 418338 409633 429359 450701 425247 444670 422867 420162 453857 422887 412709 430044 408202 413554 415166 422386	delta-like homola Insulin-like grow mucin 4, trachec matrix metallopr neuronal pentra: ESTs matrix metallopr hypothetical prol matrix metallopr hypothetical procartilage oligomic cyclin-dependen Ras-induced ser ESTs KIAA0027 protei ESTs DKFZP586L151 secretogranin II carboxypeptidas heparan sulfete	th factor 2 (somatomed obronchial obtainase 11 (stromelysi din 1 obtainase 14 (membrane-lein XP_098151 (leucine obtainase 11 (stromelysi lein MGC5370 eric matrix protein (ps t kinase 4 lescence 1 (RIS1) in protein (chromogranin C) e Z (glucosamine) 3-O-sulfo	U15979 AJ010901 M31126 NM_002522 AW449822 W00482 H39960 NM_005940 H58373 L32137 BE378432 AL080235 AI751848 AL022327 AA464510 AA21710 AA319146 NM_003552 AF105374	Hs.169228 Hs.198267 Hs.352054 Hs.8 4154 Hs.55200 Hs.2399 Hs.288467 Hs.155324 Hs.352938 Hs.1584 Hs.95577 Hs.35861 Hs.49215 Hs.49215 Hs.452812 Hs.452884 Hs.152812 Hs.45658 Hs.75426 Hs.76888 Hs.76888	22.5 21.4 19.9 18.3 16.5 16.4 16.2 15.8 15.1 14.4 13.6 13.5 13.3 13.2 13.0 12.7 12.6 12.3 11.8	2196 2197 6437 4766 1689 1690 6076 49 50 4823 1220 1221 5731 371 5068 2551 6702 4183 8048 2072 2073 6351 3714 7666 1751 1752 6122 1422 5883 4449 4450 8266 1755 6124 631 632 5269 2642 6765 202 4942 729 5346 913 914 5491 1676 1677 6067			-
505560	426300 404977 402487 406687 418338 409633 429359 450701 425247 444670 422867 420162 453857 4207 422887 412709 430044 408202 413554 415166 422386 424687	delta-like homolinsulin-like grow mucin 4, trachec matrix metallopringuronal pentra: ESTs matrix metallopringuronal pentra: ESTs matrix metallopringuronal pentra: metallopringuronal pentra: metallopringuronal procedin-dependent Ras-Induced ser ESTs KIAA0027 protei ESTs DKFZP586L151 secretogramin III carboxypeptidas heparan sulfiste matrix metallopringuronal pentra metallopringuronal pentra p	th factor 2 (somatomed obronchial obtainese 11 (stromelysi din l otelinase 14 (membrane-lein XP_098151 (leucine otelinase 11 (stromelysi lein MGC5370 orte matrix protein (ps t kinase 4 lescence 1 (RIS1) on protein (chromogranin C) e z (glucosamine) 3-O-sulfo otelinase 9 (gelatinase	U15979 AJ010901 M31126 NM_002522 AW449822 W00482 H39960 NM_005940 H58373 L32137 BE378432 AL080235 AI751848 AL022327 AA464510 AA227710 AA319146 NM_003652 AF105374 J05070	Hs.169228 Hs.198267 Hs.352054 Hs.352054 Hs.35200 Hs.2399 Hs.288467 Hs.352338 Hs.1584 Hs.95577 Hs.35861 Hs.49215 Hs.49215 Hs.43658 Hs.75426 Hs.75426 Hs.7 8068 Hs.7 8068 Hs.115330 Hs.151738	22.5 21.4 19.9 18.3 16.5 16.4 16.2 15.8 15.1 14.4 13.6 13.5 13.3 13.2 13.0 12.7 12.6 12.8 11.8	2196 2197 6437 4766 1689 1690 6076 49 50 4823 1220 1221 5731 371 5068 2551 6702 4183 8048 2072 2073 6351 3714 7666 1751 1752 6122 1422 5883 4449 4450 8266 1755 6124 631 632 5269 2642 6765 202 4942 729 5346 913 914 5491 1676 1677 6067 1986 1987 6289			-
50 55	426300 404977 422487 406687 418338 409633 429359 450701 425247 444670 422867 422867 422887 412709 430044 408202 413554 415166 422386 424687 444381	delta-like homolinsulin-like grow mucin 4, trachec matrix metallopr neuronal pentra: ESTs matrix metallopr hypothetical proi matrix metallopr hypothetical proi cartilage oligomi cyclin-dependen Ras-induced ser ESTs KIAA0027 protei ESTs DKFZP586L151 secretogranin II carboxypeptidas heparan sulfate matrix metallopr hypothetical proi	th factor 2 (somatomed obronchial obtainase 11 (stromelysi din l obtainase 14 (membranelein XP_098151 (leucine obtainase 11 (stromelysi lein MGC5370 eric matrix protein (ps t kinase 4 leescence 1 (RIS1) n protein (chromogranin C) e Z (glucosamine) 3-O-sulfo obtainase 9 (gelatinase lein BC014245	U15979 AJ010901 M31126 NM_002522 AW449822 W00482 H39960 NM_005940 H58373 L32137 BE378432 AL080235 AI751848 AL022327 AA464510 AA319146 NM_003652 AF105374 J05070 BE387335	Hs.169228 Hs.198267 Hs.352054 Hs.8 4154 Hs.55200 Hs.2399 Hs.288467 Hs.1 55324 Hs.332938 Hs.1584 Hs.95577 Hs.35861 Hs.49215 Hs.754518 Hs.152812 Hs.43658 Hs.152812 Hs.43658 Hs.15530 Hs.15530 Hs.15530 Hs.15530 Hs.15738 Hs.15738 Hs.15738	22.5 21.4 19.9 18.3 16.5 16.4 16.2 15.8 15.1 14.4 13.6 13.3 13.3 13.3 13.2 12.7 12.6 12.3 11.8 11.8	2196 2197 6437 4766 1689 1690 6076 49 50 4823 1220 1221 5731 371 5068 2551 6702 4183 8048 2072 2073 6351 3714 7666 1751 1752 6122 1422 5883 4449 4450 8266 1755 6124 631 632 5269 2642 6765 202 4942 729 5346 913 914 5491 1676 1677 6067 1986 1987 6289 3697 7652			-
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50556065707580	426300 404977 422487 406687 418338 409633 429359 450701 425247 444670 422867 42062 430044 408202 413554 415166 422386 424887 442426 452620 446619 418477 423575 453331 422424 411477 423575 453331 422424 418399 425292 426559 423961 409132 418054 421458 452401 415989 439755 419762	delta-like homolinsulin-like grow mucin 4, tracher matrix metallopr neuronal pentrates and periodical produced series and periodical produced series kiAA0027 proteites kiAA0027 proteites kiAA0027 proteites kiAA0027 proteites and periodical produced series kiAA0027 proteites kiAA0027 proteites and periodical produced series kiAA0027 proteites kiAA0027 proteites and periodical produced series kiAA0027 proteite matrix metalloprohypothetical produced proteites proteited phosphilarical produced proteites proteited proteites proteited proteites proteited proteited proteites proteited p	th factor 2 (somatomed obronchial obtainase 11 (stromelysistin I) obtainase 14 (membrane-lein XP_098151 (leucine obtainase 11 (stromelysistein MGC5370 eric matrix protein (ps. t. kinase 4 nescence 1 (RIS1) n. protein (chromogranin C) e Z (glucosamine) 3-O-sulfonteinase 9 (gelatinase ein BC014245 ein MGC5370 noprotein 1 (osteopontin, ocialed protein 2 osarcoma n. (OSF-2os) tiliation factor ein FLJ12442 ich repeat (LRR) protein o acid cleaving system 20s) MP-activated, beta 2 n. 2 eratan sulfate Gal-6) su	U15979 AJ010901 M31126 NM_002522 AW449822 W00482 H39960 NM_005940 H58373 L32137 BE378432 AL080235 AI751848 AL022327 AA464510 AA227710 AA319146 NM_003652 AF105374 J05070 BE387335 AI373062 AA436504 AU076643 BE613836 U41635 C18863 AI240665 AI186431 AF131781 NM_005824 AB001914 D13666 AJ224538 NM_002318 NM_003654 NM_007115 AI267700 AW7748482 AI608647	Hs.169228 Hs.198267 Hs.352054 Hs.8 4154 Hs.55200 Hs.2399 Hs.288467 Hs.155324 Hs.35238 Hs.1584 Hs.95577 Hs.35861 Hs.49215 Hs.74518 Hs.152812 Hs.43658 Hs.115830 Hs.151738 Hs.352537 Hs.352537 Hs.296638 Hs.11563443 Hs.352537 Hs.296638 Hs.11563443 Hs.352537 Hs.296638 Hs.170414 Hs.136348 Hs.170414 Hs.136348 Hs.104576 Hs.2 9352 Hs.8 3354 Hs.104576 Hs.2 9352 Hs.8 3354 Hs.104576 Hs.2 9352 Hs.8 351201 Hs.77873 Hs.32374	22.5 21.4 19.9 18.3 16.5 16.4 16.2 15.8 15.1 14.4 13.6 13.5 13.3 13.2 13.0 12.7 12.6 12.3 11.8 11.7 11.7 11.5 11.5 11.4 11.3 11.3 11.3 11.2 11.1 11.1 11.1 11.1	2196 2197 6437 4766 1689 1690 6076 49 50 4823 1220 1221 5731 371 5068 2551 6702 4183 8048 2072 2073 6351 3714 7666 1751 1752 6122 1422 5883 4449 4450 8266 1755 6124 631 632 5269 2642 6765 202 4942 729 5346 913 914 5491 1676 1677 6067 1986 1987 6289 3697 7652 3562 7534 4338 8172 3861 7782 3861 7782 3861 7782 1196 5713 822 823 5425 1820 6173 4413 8236 1681 6070 1232 1233 5738 2083 2084 6359 2253 2254 6474 1878 1879 6215 309 310 5025 1184 1185 5702 1543 1544 5972 4325 4326 8161 962 5530 3430 7413 1387 5855			
505560657075	426300 404977 422487 406687 418338 409633 429359 450701 425247 444670 422867 420162 453857 422887 412709 430044 408202 413554 415166 422386 424687 444381 442426 452620 446619 414477 423575 453331 422424 418399 425292 426559 423961 409132 418054 421458 452401 415989 439755	delta-like homolinsulin-like grow mucin 4, tracher matrix metallopr neuronal pentrates and pentrates	th factor 2 (somatomed obronchial obtainase 11 (stromelysistin 1) obtainase 14 (membrane-lein XP_098151 (leucine obtainase 11 (stromelysistein MGC5370 eric matrix protein (pst kinase 4 lescence 1 (RIS1) In protein (chromogranin C) e Z (glucosamine) 3-O-sulfo obtainase 9 (gelatinase en BC014245 ein MGC5370 loprotein 1 (osteopontin, octated protein 2 osarcoman (OSF-2os) tilation factor eien FLJ12442 ich repeat (LRR) protein cacid cleaving system 2os) MP-activated, beta 2 n o 2 eratan sulfate Gal-6) su actor, alpha-induced pr	U15979 AJ010901 M31126 NM_002522 AW449822 W00482 H39960 NM_005940 H58373 L32137 BE378432 AL080235 AI751848 AL022327 AA464510 AA319146 NM_003652 AF105374 J05070 BE387335 AJ373062 AA436504 AU076643 BE613836 U41635 C18863 AJ240665 AJ186431 AF131781 NM_005824 AB001914 D13666 AJ224538 NM_002318 NM_003654 NM_003654 NM_007115 NM_007115 NM_007115 NM_007110 AW748482	Hs.169228 Hs.198267 Hs.352054 Hs.8 4154 Hs.55200 Hs.2399 Hs.288467 Hs.155324 Hs.35527 Hs.35861 Hs.49215 Hs.49215 Hs.49215 Hs.49658 Hs.152812 Hs.43658 Hs.152812 Hs.43658 Hs.152812 Hs.43658 Hs.152813 Hs.332938 Hs.15830 Hs.15738 Hs.15830 Hs.15738 Hs.158351 Hs.36348 Hs.283713 Hs.36328 Hs.163443 Hs.352537 Hs.296538 Hs.163443 Hs.352537 Hs.296538 Hs.104576 Hs.8 3354 Hs.1 04576 Hs.8 3354 Hs.1 04576 Hs.8 3354 Hs.1 04576 Hs.8 3354 Hs.1 04576 Hs.8 3354	22.5 21.4 19.9 18.3 16.5 16.4 16.2 15.1 14.4 13.5 13.3 13.3 13.2 13.0 12.7 12.6 12.3 11.8 11.7 11.5 11.5 11.5 11.5 11.4 11.4 11.3 11.2 11.2 11.2 11.1 11.1 11.1 11.1	2196 2197 6437 4766 1689 1690 6076 49 50 4823 1220 1221 5731 371 5068 2551 6702 4183 8048 2072 2073 6351 3714 7666 1751 1752 6122 1422 6883 4449 4450 8266 1755 6124 631 632 5269 2642 6765 202 4942 729 5346 913 914 5491 1676 1677 6067 1986 1987 6289 3697 7652 3562 7534 4338 8172 3861 7782 1196 5713 822 823 5425 1820 6173 4413 8236 1681 6070 1232 1233 5738 2083 2084 6359 2253 2254 6474 1878 1879 6215 309 310 5025 1184 1185 5702 1543 1544 5972 4352 4326 8161 962 5530 3430 7413			

	/172no	ICIA ADICIA cono condust	UCOZDO	Un 04000	40.4	4004 5004
	417308 442700	KIAA0101 gene product hypothetical protein MGC5576	H60720 AA377618	Hs.81892 Hs.103834	10.4	. 1094 5634
	404550	Target Exon	W311010	ns. 103634	10.2 10.1	3578 7548
	437330	Homo sapiens mRNA; cDNA DKFZp761J	1112 / Al 3530	MA He 50115		4750 3253 7250
5	442285	uncharacterized hypothalamus protein HT		Hs.374989	10.0	3554 7526
_	413004	Interleukin enhancer binding factor 2,	T35901	Hs.75117	9.9	667 5300
	434449	hypothetical protein FLJ22041 similar t	AW953484	Hs.3849	9.9	3057 7083
	423472	breast cardnoma amplified sequence 1	AF041260	Hs.129057	9.9	1812 1813 6167
10	426156	natriurelic peptide receptor A/guanylat	BE244537	Hs.167382	9.9	2183 6427
10	419741	ubiquitin carrier protein E2-C	NM_007019	Hs.9 3002	9.8	1379 1380 5850
	449784	ESTs	AW161319	Hs.12915	9.8	4115 7993
	406964	FGENES predicted novel secreted protein			9.8	87 88 4847
	439053	chaperonin containing TCP1, subunit 2 (Hs.6456	9.8	3374 7357
15	408972	DKFZP586D0919 protein	AL050100	Hs.49378	9.8	287 288 5008
13	410687	lysyl oxidase-like 1	U24389	Hs.65436	9.8	485 486 5153
	448386 407656	KIAA1329 protein	AB037750	Hs.21061	9.8	3997 3998 7896
	424086	Homo sapiens mRNA; cDNA DKFZp434B lysyl oxidase	Al351010	Hs.102267	3 9.7 9.6	148 4893
	431211	gap junction protein, beta 2, 26kD (con	M86849	Hs.323733	9.6	1896 6227 2762 2763 6850
20	412755	ESTs, Weakly similar to P4HA_HUMAN P				637 5274
	426991	Homo sapiens cDNA FLJ10674 fis, clone			9.5	2294 6502
	450098	hypothetical protein FLJ21080	W27249	Hs.8109	9.4	4134 8009
	411296	growth suppressor 1	BE207307	Hs.10114	9.4	524 5183
0.5	409012	DKFZP434l216 protein	AL117435	Hs.49725	9.4	293 294 5013
25	413211	hypothetical protein MGC4365	AW967107	Hs.109274	9.4	689 5318
	449077	ESTs	AW262836	Hs.252844	9.4	4063 7947
	425130	ESTs	AA448208	Hs.99163	9.3	2050 6335
	440502	regulator of G-protein signalling 12	Al824113	Hs.78281	9.3	3470 7449
30	449717 422961	cerebral cell adhesion molecule	AB040935	Hs.23954	9.3	4110 4111 7989
50	421508	B-cell CLL/lymphoma 9 absent in melanoma 2	Y13620	Hs.122607	9.3	1763 1764 6131
	421155	lysyl oxidase	NM_004833 H87879	Hs.102267	9.3 9.3	1551 1552 5977
	434096	pleiomorphic adenoma gene-like 1	AW662958	Hs.75825	9.3	1512 5950 3029 7062
	433612	Homo sapiens Ku70-binding protein (KUB		Hs.61188	9.2	2991 2992 7030
35	450375	a disIntegrin and metalloproteinase dom	AA009647	Hs.352537	9.2	4159 8028
	443780	activating transcription factor 5	NM_012068		9.2	3643 3644 7606
	445417	a disintegrin-like and metalloprotease	AK001058	Hs.12680	9.1	3766 7705
	447500	ESTs	Al381900	Hs.159212	9.1	3935 7843
40	451292	KIAA1295 protein	AB037716	Hs.26204	9.1	4221 4222 8079
40	417900	CDC20 (cell division cycle 20, S. cerev	BE250127	Hs.82906	9.0	1165 5688
	413011	biglycan	AW068115	Hs.821	8.9	669 5302
	408989	KIAA0746 protein	AW361666	Hs.49500	8.9	290 5010
	449722 431750	cyclin B1	BE280074	Hs.23960	8.9	4112 7990
45	431089	ESTs, Weakly similar to unknown protein	AA514986	Hs.283705 Hs.374629	8.8 8.8	2816 -6891
1.5	415701	gamma-glutamyl hydrolase (conjugase, fo			8.8	2745 6838 940 941 5514
	452701	glutamine-fructose-6-phosphate transami			8.7	4345 4346 8178
	426369	Kreisler (mouse) maf-related leucine zi	AF134157	Hs.169487	8.6	2213 2214 6448
	431103	pleiotrophin (heparin binding growth fa	M57399	Hs.44	8.6	2748 2749 6840
50	422567	glypican 6	AF111178	Hs.118407	8.6	1702 1703 6087
	408692	dipeptidylpeptidase VI	AL040127	Hs.34074	8.5	248 4978
	412140	RAB6 interacting, kinesin-like (rabkine	AA219691	Hs.73625	8.5	573 5223
	440099	DKFZP564G202 protein	AL080058	Hs.6909	8.5	3453 3454 7434
55	423600	ESTs	AI633559	Hs.310359	8.5	1824 6177
<i>JJ</i>	444931	general transcription factor IIIA	AV652066	Hs.75113	8.5	3735 7681
	422087 421143	matrix metalloproteinase 2 (gelatinase immunoglobulin superfamily containing i	X58968	Hs.111301	8.5	1641 6040
	445302	hypothetical protein FLJ10675	AB024536 AK001537	Hs.102171 Hs.12488	8.5 8.4	1510 1511 5949 3757 3758 7699
	427099	odd Oz/ten-m homolog 2 (Drosophila, mor		Hs.173560	8.4	2302 2303 6509
60	439223	UL16 binding protein 2	AW238299	Hs.250618	8.4	3383 7366
	452862	ADAMTS2 (a disintegrin-like and metall	AW378065	Hs.8687	8.3	4360 8190
	452683	progesterone membrane binding protein	Al089575	Hs.374574	8.3	4341 8175
	454140	hypothetical protein FLJ10474	AB040888	Hs.41793	8.3	4493 4494 8301
65	452017	prostate cancer associated protein 7	AF109302	Hs.27495	8.3	4270 8117
65	453018	ESTs, Weakly similar to Trad (H.sapiens	AA054522	Hs.61581	8.3	4379 8207
	430055	ESTs	BE539656	Hs.283705	8.3	2644 6767
	423217	collagen, type VII, alpha 1 (epidermoly	NM_000094		8.3	1784 1785 6147
	431866 418932	angiopoietin-like 2 cadherin 4, type 1, R-cadherin (retinal	NM_012098 L34059	Hs.89484	8.2 8.2	2830 2831 6902
70	439070	ESTs	Al733278	Hs.7621	8.2	1285 1286 5777 3375 7358
. •	457869	Homo sapiens, alpha-1 (VI) collagen	AU077186	Hs.108885	8.2	4561 8359
	424126	ESTs	AA335635	Hs.96917	8.1	1902 6231
	422627	transforming growth factor, beta-induce	BE336857	Hs.118787	8.1	1715 6097
75	417866	collagen, type XI, alpha 1	AW067903	Hs.82772	8.1	1162 5685
75	445900	Homo sapiens clone 24787 mRNA seque	nce AF07052	3 Hs.125036	8.1	3803 7733
	407756	ubiquitin specific protease 18	AA116021	Hs.38260	8.1	159 4903
	459702	gb:an03c03.x1 Stratagene schizo brain S			8.1	4596 8393
	443426	chromosome 20 open reading frame 1	AF098158	Hs.9329	8.1	3621 3622 7586
80	423739 417059	ESTs extracellular matrix protein 1	AA398155	Hs.97600	8.1	1842 6190
55	445537	EGF-like-domain, multiple 6	AL037672 AJ245671	Hs.81071 He 12844	8.0 8.0	1067 5611 3780 3781 7716
	438451	ESTs	AI081972	Hs.12844 Hs.220261	8.0	3323 7313
	424916	ESTs	AW867440	Hs.23096	8.0	2028 6319
0.5	416349	myomesin (M-protein) 2 (165kD)	X69089	Hs.79227	7.9	991 992 5556
85	400242	Eos Control		Hs.144700	7.9	4605
	428289	complement component 2	M26301	Hs.2253	7.9	2421 2422 6603

	447400		504500			
	447198	ESTS	D61523	Hs.283435	7.9	3898 7814
•	428182	ESTs, Weakly similar to GGC1_HUMAN (2403 6588
	409041 417849	Hypothetical protein, XP_051860 (KIAA11		Hs.50081	7.9	299 300 5017
5	444371	nidogen 2 forkhead box M1	AW291587	Hs.82733	7.9	1161 5684
,	437898	ESTs	BE540274 W81260	Hs.239 Hs.43410	7.9 7.8	3696 7651 3293 7286
	408349	homeo box C10	BE546947	Hs.44276	7.8 7.8	213 4949
	417675	similar to murine leucine-rich repeat p	AI808607	Hs.3781	7.8	1144 5670
	449353	ESTs	AA001220	Hs.242947	7.7	4084 7966
10	427315	Homo sapiens mRNA; cDNA DKFZp564N				2316 6519
	435080	hypothetical protein FLJ14428	AI831760	Hs.155111	7.7	3103 7122
	444784	ectonucleofide pyrophosphatase/phospho	d D12485	Hs.11951	7.7	3724 3725 7673
	429500	hexabrachion (tenascin C, cytotactin)	X78565	Hs.289114	7.7	2574 2575 6718
15	403171	C2001472*:gi]5809678 gb AAB41848.2 (7.7	4710
15	421778	actin retated protein 2/3 complex, subu	AA428000	Hs.283072	7.6	1591 6003
	440594	ESTs	AW445167	Hs.126036	7.6	3475 7453
	425397	topoisomerase (DNA) il alpha (170kD)	J04088	Hs.156346	7.6	2099 2100 6369
	416700 425234	cathepsin D (lysosomal aspartyl proteas ESTs, Weakly similar to 138022 hypothet	AW498958	Hs.343475	7.6	1023 5579
20	417930	Horno sapiens mRNA for KIAA1870 prote	AW152225	Hs.165909 Hs.334604	7.6 7.6	2070 6349 1169 5691
	427747	serine/lihreonine kinase 12	AW411425	Hs.180655	7.6	2365 6557
	433447	neuronal pentraxin II	U29195	Hs.3281	7.6	2980 2981 7021
	409178	kallikrein 5	BE393948	Hs.50915	7.5	319 5032
~~	452828	ESTs, Wealdy similar to KIAA1528 protei		Hs.32374	7.5	4354 8185
25	421743	DKFZP564I1171 protein	T35958	Hs.107614	7.5	1586 5998
	416561	holocarboxylase synthetase (biotin-[pro	D87328	Hs.79375	7.5	1013 1014 5572
	429990	DKFZP547E1010 protein	AL050260	Hs.323817	7.5	2634 2635 6760
	435767	ESTs	H73505	Hs.117874	7.5	3151 7161
30	409103	XAGE-1 protein	AF251237	Hs.112208	7.5	304 305 5021
30	419682	paired-like homeodomain transcription f	H13139	Hs.92282	7.5	1368 5841
	410581	tumor endothelial marker 7 precursor ESTs	AA018982	Hs.125036	7.5	478 5146
	413595 407896		AW235215	Hs.16145	7.5	731 5348
	425588	Zic family member 1 (odd-paired Drosoph ESTs	F07396	Hs.41154 Hs.46627	7.4 7.4	176 177 4919
35	421570	hypothetical protein FLJ21919	AL080172	Hs.105894	7.4	2120 6383 1566 5986
	406673	major histocompatibility complex, class	M34996	Hs.198253	7.4	90 91 4821
	428189	ESTs	AA424030	Hs.46627	7.4	2404 6589
	429609	cell adhesion molecule with homology to	AF002246	Hs.210863	7.4	2584 2585 6725
40	447070	ESTs	AI871458	Hs.200022	7.4	3886 7803
40	425308	receptor tyrosine kinase-like orphan re	M97639	Hs.155585	7.4	2087 2088 6362
	448961	ESTs	Al610643	Hs.187285	7.4	4052 7937
	428834	ESTs -	AW899713	Hs.10338	7.4	2479 6647
•	403907	Autosomal Highly Conserved Protein			7.3	4732
45	407824	Homo sapiens cDNA FLJ14388 fis, clone		Hs.9812	7.3	166 4910
73	422048 427335	spondin 2, extracellular matrix protein G antigen 7B	NM_012445		7.3	1631 1632 6034
	414219	ALL1-fused gene from chromosome 1q	AA448542 W20010	Hs.278444 Hs.75823	7.3	2317 6520
	412978	homeo box C6	Al431708	Hs.820	7.3 7.3	789 5397 665 5298
	410001	kallikrein 11	AB041036	Hs.57771	7.3 7.3	403 404 5094
50	450704	ESTs	H85157	Hs.40696	7.3	4184 8049
	452281	Homo sapiens cDNA FLJ11041 fis, clone		Hs.28792	7.3	4309 8149
	436869	KIAA0711 gene product	NM_014867		7.3	3221 3222 7222
	433435	Ts translation elongation factor, mitoc	BE545277	Hs.340959	7.3	2978 7019
55	420059	RAB23, member RAS oncogene family	AF161486	Hs.94769	7.3	1412 1413 5875
55	404815	ENSP00000251989*:DJ100N22.1 (NOVE			7.3	4761
	414443 442040	platelet-derived growth factor receptor	AU077268	Hs.76144	7.3	817 5421
	408135	UDP-N-acetyl-alpha-D-galactosamine:poly methyltransferase-like 1		Hs.301062	7.3	3545 7517
	432691	milogen-activated protein kinase 7	AA317248 U29725	Hs.42957 Hs.3080	7.3 7.3	194 4936
60	412006	ESTs	AW451618	Hs.380683	7.3 7.3	2897 2898 6956 565 5217
	433001		AF217513	Hs.279905	7.2	2923 2924 6977
	457411 .	iroquois-class homeobox protein IRX2	AW085961	Hs.130093	7.2	4549 8349
	446921	small inducible cytokine subfamily A (C	AB012113	Hs.16530	7.2	3878 3879 7797
CE	424408	collagen, type V, alpha 1	Al754813	Hs.146428	7.2	1943 6260
65	442573	branched chain aminotransferase 1, cyto		Hs.7567	7.2	3570 7541
	444301	asporin (LRR class 1)	AK000136	Hs.10760	7.2	3691 3692 7647
	409142	SMC4 (structural maintenance of chromos		Hs.50758	7.2	312 313 5027
	423225 436252	Thy-1 cell surface antigen	AA852604	Hs.125359	7.2	1786 6148
70	430252 - 457211	Homo sapiens cDNA FLJ11562 fis, clone		Hs.142827	7.1	3179 7184
70	449929	ESTs, Weakly similar to S51797 vasodila ESTs		Hs.32399	7.1	4543 8344
	410270	tumor endothelial marker 1 precursor	AA004786 AF279142	Hs.163792 Hs.195727	7.1 7.1	4121 7999 442 443 5121
	450506	fibroblast activation protein, alpha	NM_004460		7.1	4170 4171 8037
	413472	solute carrier family 1 (glial high aff	BE242870	Hs.75379	7.1	725 5342
75	438866	tissue inhibitor of metalloproteinase 2	U44385	Hs.6441	7.1	3360 3361 7344
	419703	ESTs	Al793257	Hs.128151	7.1	1375 5847
	419745	slug (chicken homolog), zinc finger pro	AF042001	Hs.93005	7.1	1381 1382 5851
	409637	Homo sapiens mRNA; cDNA DKFZp434K			7.0	372 5069
80	410611	KIAA1628 protein		Hs.20924	7.0	480 5148
ou.	429415	procollagen C-endopeptidase enhancer	NM_002593 1		7.0	2557 2558 6706
	452083 411704	ESTs			7.0	4284 8127
	411704 408829	hypothetical protein FLJ10074 heparan sulfate (glucosamine) 3-O-sulfo		Hs.71573	7.0	547 5202
_	416322	pyrroline-5-carboxylate reductase 1	NM_006042 I BE019494		7.0 6.9	264 265 4991 989 6554
85	454033	homeo box HB9			6.9	989 5554 4483 8292
-	445784	ESTs			6.9	3798 <i>7</i> 728

	400740		05450407	11- 450000		2010 7010
	436748 451304	collagen, type VI, alpha 2 collagen, type XVI, alpha 1	BE159107 M92642	Hs.159263 Hs.26208	6.9 6.9	3212 7213 4224 4225 8081
	422901	ribosomal protein L44	R81936	Hs.75874	6.9	1757 6126
	417389	midkine (neurile growth-promoting facto	BE260964	Hs.82045	6.9	1109 5647
5	429294	Homo sapiens cDNA: FLJ22463 fis, clone		Hs.198793	6.9	2540 6693
	421913	osteogrycin (osteoinductive factor, mim	A1934365	Hs.109439	6.8	1611 6020
	429973	ESTs	AJ423317	Hs.164680	6.8	2628 6756
	453642	dipeptidylpeptidase VI	Al370936	Hs.34074	6.8	4431 8251
10	415885 449780	KIAA0161 gene product ribosomal protein L44	D79983 AA443241	Hs.78894 Hs.75874	6.8 6.8	953 954 5524 4114 7992
10	426600	VGF nerve growth factor inducible	NM_003378		6.8	2255 2256 6475
	437574	hypothetical protein FLJ21195 similar t	A1797592	Hs.207407	6.8	3272 7266
	429441	lipophilin B (uteroglobin family member .	AJ224172	Hs.204096	6.8	2560 2561 6708
15	418203	CDC28 protein kinase 2	X54942	Hs.83758	6.8	1202 1203 5719
15	416658	fibrillin 2 (congenital contractural ar	U03272	Hs.79432	6.8	1020 1021 5577
	422562	AE-binding protein 1	Al962060	Hs.118397	6.8	1700 6085
	452973 414172	ESTs phosphatidylinositol glycan, class C	H88409 AW954324	Hs.40527 Hs.75790	6.8 6.8	4375 8203 785 5393
	428248		Al126772	Hs.40479	6.7	2414 6596
20	443883	serine (or cysteine) proteinase Inhibit	AA114212	Hs.9930	6.7	3653 7614
	422007	ESTs	Al739435	Hs.39168	6.7	1624 6029
	417944	collagen, type V, alpha 2	AU077196	Hs.82985	6.7	1172 5693
	424915	ESTs	R42755	Hs.23096	6.7	2027 6318
25	453175 421552	RAB32, member RAS oncogene family secreted frizzled-related protein 4	NM_006834 AF026692	Hs.32217 Hs.105700	6.7 6.7	4400 4401 8225 1559 1560 5982
20	452106	ESTs	AI141031	Hs.21342	6.6	4289 8131
	422890	ankyrin 3, node of Ranvier (ankyrin G)	Z43784	Hs.351357	6.6	1756 6125
	425708	hypothetical protein FLJ22530	AK001342	Hs.14570	6.6	2128 2129 6388
20	407811		AW190902	Hs.40098	6.6	164 4908
30	418478	cyclin-dependent kinase inhibitor 2A (m	U38945	Hs.1174	6.6	1245 1246 5747
	420888 429451	dihydropyrimidinase-like 4	AB006713 BE409861	Hs.100058 Hs.202833	6.6 6.6	1486 1487 5930 2562 6709
	422106	heme oxygenase (decycling) 1 Fc fragment of IgG binding protein	D84239	Hs.111732	6.5	1646 1647 6044
	450785	Homo sapiens, alpha-1 (VI) collagen	AA852713	Hs.108885	6.5	4193 8056
35	428317	ESTs	AW022609	Hs.50745	6.5	2431 6610
	421823	ESTs	N40850	Hs.28625	6.5	1600 6011
	418322	cyclin-dependent kinase inhibitor 3 (CD	AA284166	Hs.84113	6.5	1214 5727
	426968 442295	amphiphysin (Stiff-Mann syndrome with b		Hs.173034 Hs.224398	6.5	2290 2291 6499
40	400419	Homo sapiens cDNA FLJ11469 fis, clone Target	AF084545	ПS.ZZ4390	6.5 6.5	3555 7527 22 23 4626
	407604	collagen, type VIII, alpha 2	AW191962	Hs.353001	6.5	145 4891
	450847	stanniocalcin 1	NM_003155		6.5	4201 4202 8062
	416391	mesoderm specific transcript (mouse) ho	A1878927	Hs.79284	6.5	999 5562
15	422765-	baculoviral IAP repeat-containing 5 (su	AW409701	Hs.1578	6.5	1734 6110
45	420576	KIAA1858 protein	AA297634	Hs.54925	6.5	1463 5914
	441020 408118	ESTs calcium binding protein Cab45 precursor	W79283 T23064	Hs.35962 Hs.42806	6.4 6.4	3495 7471 192 4934
	409433	ESTs	AA074382	Hs.135255	6.4	349 5053
	432239	matrix metalloproteinase 13 (collagenas	XB1334	Hs.2936	6.4	2856 2857 6921
50	434652	bladder cancer overexpressed protein	AF148713	Hs.125830	6.4	3066 3067 7092
	438459	Homo sapiens cDNA FLJ13655 fis, clone		Hs.35304	6.4	3325 7315
	417605	regulator of G-protein signalling 3	AF006609	Hs.82294	6.4	1138 1139 5665
	424420 425964	prostaglandin E synthase progesterone membrane binding protein	BE614743	Hs.146688 Hs.9071	6.4 6.4	1949 6264 2157 6408
55	433078	Homo sapiens cDNA FLJ12231 fis. clone			6.4	2938 6988
	442432	hypothetical protein FLJ23468	BE093589	Hs.38178	6.3	3563 7535
	452046	KIAA0802 protein	AB018345	Hs.27657	6.3	4275 4276 8120
	402992	Target Exon			6.3	4700
60	426363 451253	transforming growth factor, beta 3	M58524	Hs.2025	6.3	2210 2211 6446
00	412104	claudin 10 Homo sapiens, Similar to RIKEN cDNA 2	H48299 21 AW205197	Hs.26126 Hs 240951	6.3 ·	4220 8078 569 5220
	418110	hypothetical protein FLJ22202	R43523	Hs.217754	6.3	1193 5710
	451763	hypothetical protein FLJ14220	AW294647	Hs.233634	6.3	4254 8103
65	419750	Homo sapiens cDNA FLJ14236 fis, clone		Hs.183114	6.3	1385 5853
65	408212	hypothetical protein	AA297567	Hs.43728	6.3	206 4945
	427751 431124	conserved gene amplified in osteosarcom doublesex and mab-3 related transcripti	AF284221	Hs.355816 Hs.59506	6.3 6.3	2366 2367 6558 2753 2754 6843
	434377	intron of periostin (OSF-2os)	AW137148	Hs.306593	6.2	3051 7078
	413436	sphingosine kinase 1	AF238083	Hs.68061	6.2	721 722 5339
70	439285	hypothetical protein FLJ20093	AL133916	Hs.47860	6.2	3389 7372
	431183	KDEL (Lys-Asp-Glu-Leu) endoplasmic rel			6.2	2756 2757 6845
	431347	insulin-like growth factor 2 (somatomed	Al133461	Hs.251664	6.2	2774 6859
	426855 438085	Homo sapiens mRNA; cDNA DKFZp566F ESTs	R52518	Hs.7967	6.2 6.2	2279 6491 3200 7202
75	452063	ESTs, Weakly similar to TWST_HUMAN			6.2 6.2	3299 7292 4281 8124
-	447359	adenylate kinase 5	NM_012093		6.2	3918 3919 7830
	419156	amelogenin (X chromosome, amelogenes	is AC002366	Hs.1238	6.2	1311 1312 5797
	420005	ESTs	AW271106	Hs.133294	6.2	1407 5871
80	410867 452199	fibrillin 1 (Marfan syndrome) hypothetical protein MGC3133	X63556 BE255643	Hs.750	6.2	498 499 5162
-	410240	synaptojanin 2	AL157424	Hs.110695 Hs.61289	6.2 6.1	4297 8139 437 5117
	447733	MAD2 (mitotic arrest deficient, yeast,	AF157482	Hs.19400	6.1	3955 3956 7860
	424162	ESTs, Weakly similar to ALU2_HUMAN A	LU AA33622		6.1	1907 6235
85	418283	cathepsin K (pycnodysostosis)	S79895	Hs.83942	6.1	1210 1211 5724
O)	426935	collagen, type I, alpha 1	NM_000088		6.1	2288 2289 6498
	450447	hypothetical protein P15-2	AF212223	Hs.25010	6.1	4168 4169 8036

	417437	interferon regulatory factor 4	U52682	Hs.82132	6.1	1123 1124 5656
	401797	Target Exon			6.1	4663
	421251	enigma (LIM domain protein)	Z28913	Hs.102948	6.1	1521 5957
_	427060	ESTs	AW378993	Hs.90286	6.1	2300 6507
5	436311	ESTs	AA708958	Hs.168732	6.1	3181 7186
	434629	glioma-amplified sequence-41	AA789081	Hs.4029	6.1	3064 7090
	410295	nidogen (enactin)	AA741357	Hs.356624	6.1	450 5127
	401131	NM_001651*:Homo sapiens aquaporin 5			6.1	4644
10	421579	stem cell growth factor, lymphocyte sec	NM_002975		6.0	1567 1568 5987
10	429707	matrix metalloproteinase 23B	W76631	Hs.211819	6.0	2606 6738
	428046	ESTs, Moderately similar to I38022 hypo		Hs.337534	6.0	2393 6579
	444734	7-dehydrocholesterol reductase	NM_001360		6.0	3718 3719 7669
	451766		NM_001406		6.0	4255 4256 8104
15	449294	ESTs	A1651786	Hs.195045	6.0	4079 7961
13	410361	guanylate binding protein 1, interferon	BE391804	Hs.62661	6.0	456 5132
	451149	RNA binding motif protein 8B	AL047586	Hs.10283	6.0	4214 8073
	453164	SNARE associated protein snapin	F33692	Hs.32018	6.0	4396 8222
	446211	S100 calcium-binding protein A13	AI021993	Hs.14331	6.0	3824 7752
20	407083	H.sapiens XG mRNA (clone PEP11)	Z48511	11- 400400	6.0	107 4859
20	456508	ESTs, Weakly similar to AF208855 1 BM-		Hs.123469	6.0	4521 8325
	452291	CDC7 (cell division cycle 7, S. cerevis	AF015592	Hs.28853	6.0	4310 4311 8150
	452160	cysteine sulfinic acid decarboxylase-re	BE378541	Hs.355568	6.0	4292 8134
	449318	Homo sapiens, Similar to RIKEN cDNA 5			6.0	4080 7962
25	442743 419169	ESTs, Weakly similar to MUC2_HUMAN I				3583 7551
23	445363	ESTs, Weakly similar to S72482 hypothet		Hs.262346	5.9	1314 5799
	432731	tubulin-specific chaperone d fibronectin 1	NM_005993		5.9	3762 3763 7702
			R31178	Hs.287820	5.9	2904 6961
	425760 402855	galactosamine (N-acetyl)-6-sulfate sulf	D17629	Hs.159479	5.9	2134 2135 6392
30	438203	NM_001839*:Homo sapiens calponin 3, a ESTs	BE540090	11- 2240	5.9	4694
50	428450			Hs.7345	5.9	3308 7300
	434879	KIAA0175 gene product collagen, type VI, alpha 2	NM_014791		5.9	2443 2444 6621
	422809		M34572	Hs.159263	5.9	3086 3087 7107
	423905	hypothetical protein FLJ10549	AK001379	Hs.121028	5.9	1741 1742 6115
35	415758	lung type-I cell membrane-associated gl		Hs.135150	5.9	1867 6207
55	427871	prolein kinase C, zeta	BE270465	Hs.78793	5.9	946 5518
	458956	Homo sapiens, clone IMAGE:3507281, m				2380 6568
	426798	gb:ht98f11.x1 NCI_CGAP_Lu24 Homo sa	AA385062		5.9	4587 8383
	424440	ESTs ESTs	AA340743	Hs.130260	5.8	2275 6487
40	445875	Homo sapiens clone 24453 mRNA seque		Hs.133208	5.8	1951 6266
-10	420139	lipase, hormone-sensitive	NM_005357		5.8 5.8	3801 7731
	439897	KIAA0942 protein	NM_015310		5.8	1419 1420 5881
	432527	ESTs	AW975028	Hs.102754	5.8	3437 3438 7420 2883 6944
	428398	ESTs	AI249368	Hs.98558	5.8	2435 6614
45	432576	ESTs, Weakly similar to 138022 hypothet		Hs.165954	5.8	2888 6949
	421848	collagen, type VI, alpha 1	X15880	Hs.108885	5.8	1602 1603 6013
	404245	NM_007116*:	71.0000	115.100000	5.8	4743
	408901	hypothetical protein FLJ10468	AK001330	Hs.48855	5.8	272 273 4997
	439979	hypothetical protein FLJ10430	AW600291	Hs.6823	5.8	3442 7424
50	452436	ESTs, Moderately similar to A46010 X-li	BE077546	Hs.31447	5.8	4330 8164
	432211	hypothetical protein FLJ10986	BE274530	Hs.273333	5.8	2852 6917
	425398	hypothetical protein similar to tenasci	AL049689	Hs.156369	5.8	2101 2102 6370
	447757	KIAA0859 protein	AA071276	Hs.19469	5.8	3960 7863
	434775	ESTs	AA648983	Hs.370514	5.8	3074 7098
55	422586	hypothetical protein FLJ22127	AA312704	Hs.59457	5.8	1709 6091
	441669	Homo saplens cDNA FLJ11436 fis, clone	H R78195	Hs.29692	5.8	3532 7504
	424066	ESTs, Weakly similar to 138022 hypothet	Z99348	Hs.112461	5.8	1891 6223
	422201	G protein-coupled receptor 30	NM_001505	Hs.1 13207	5.7	1658 1659 6054
C O	449378	ESTs	AW664026	Hs.59892	5.7	4085 7967
60	421815	membrane protein CH1	AW592146	Hs.108636	5.7	1598 6009
	408792	coagulation factor X	L29433	Hs.47913	5.7	260 261 4988
	409190	sarcoma amplified sequence	AU076536	Hs.50984	5.7	321 5034
	435232	cyclin-dependent kinase inhibitor 2C (p	NM_001262	Hs.4 854	5.7	3114 3115 7132
CE	411893	ESTs	R82845	Hs.273789	5.7	558 5211
65	428959	WNT1 Inducible signaling pathway protei		Hs.194680	5.7	2493 2494 6657
	421686	KIAA0584 protein	AB011156	Hs.106794	5.7	1578 1579 5993
	418113	SRY (sex determining region Y)-box 4	AI272141	Hs.83484	5.7	1194 5711
	433842	ESTs	AI652156	Hs.26346	5.7	3009 7044
70	409664	ESTs	AA076743	Hs.129770	5.7	374 5071
70	427855	KIAA1877 protein	R61253	Hs.98265	5.7	2376 6565
	453880	ESTs, Weakly similar to 138022 hypothet		Hs.135121	5.7	4458 8272
	410169	hypothetical protein MGC3047	Al373741	Hs.59384	5.7	428 5112
	409731 414001	Ihymosin, beta, identified in neuroblas	AA125985	Hs.56145	5.7	386 5080
75	409125	ESTs, Moderately similar to ALU1_HUMA axonal transport of synaptic vesicles	R17268	Hs.103812	5.7	762 5374
	421991	KIAA0990 protein	NM_014918	Hs.343567	5.7 5.6	308 5024
	414359	cadherin 11, type 2, OB-cadherin (osteo	M62194		5.6 5.6	1622 1623 6028
	412446	ESTs	AI768015	Hs.75929	5.6 5.6	808 5413
	419511	general transcription factor IIIA	AA429750	Hs.352375 Hs.75113	5.6 5.6	586 5235 1345 5824
80 -	428981	ESTs, Weakly similar to ALU2_HUMAN A		7 He 02125	5.6	1345 5824 2497 6660
		, , , , , , , , , , , , , , , , , ,			5.6	171 4915
		Homo sapiens cDNA FLJ10934 fis clone	O BENGRIA			
	407862	Homo sapiens cDNA FLJ10934 fis, clone KIAA0318 protein				
	407862 410711	Homo sapiens cDNA FLJ10934 fis, clone KIAA0318 protein ESTs	AB002316	Hs.65746	5.6	489 490 5155
	407862	KIAA0318 protein ESTs	AB002316 AW168067	Hs.65746 Hs.317694	5.6 5.6	489 490 5155 3819 7747
85	407862 410711 446102	KIAA031B protein	AB002316 AW168067	Hs.65746 Hs.317694 Hs.71891	5.6 5.6 5.6	489 490 5155 3819 7747 550 5205
	407862 410711 446102 411756	KIAA0318 protein ESTs discoldin domain receptor family, membe	AB002316 AW168067 BE294350	Hs.65746 Hs.317694	5.6 5.6	489 490 5155 3819 7747

	418986	ESTs	AJ123555	Hs.293821	5.6		1288 5779
	401130	Target Exon			5.6		4643
	425131	ESTs	BE252230	Hs.99163	5.6		2051 6336
5	433430	ESTs	Al863735	Hs.369982 Hs.44155	5.6 5.6		2977 7018
)	408296	DKFZP586G1517 protein hypothetical protein MGC13102	AL117452 Al620463	Hs.347408	5.6		209 210 4947 2541 6694
	429299 435460	ESTs	AA682439	Hs.118380	5.6		3126 7142
	411789	Adlican	AF245505	Hs.72157	5.6		553 554 5207
	417933	thymidylate synthetase	X02308	Hs.82962	5.6		1170 1171 5692
10	411335	KIAA1096 protein	AA132813	Hs.69559	5.6		526 5185
	431070	transcription factor 19 (SC1)	AW408164	Hs.249184	5.5		2744 6837
	434837	lysophosphalidic acid acyltransferase-d	AF156776	Hs.353175	5.5		3080 3081 7102
	400245	Eos Control	Mannea	Hs.7957	5.5		4607 1830 6182
15	423633	ESTs ESTs	N39053 R45137	Hs.164146 Hs.279789	5.5 5.5		1191 5708
13	418097 410096	hypothetical protein MGC5540	AW245200	Hs.267400	5.5		420 5105
	429965	Homo sapiens cDNA FLJ11789 fis. clone		Hs.99551	5.5		2627 6755
	452839	ribosomal protein L44	R96290	Hs.75874	5,5		4359 8189
	426386	bladder cancer overexpressed protein	AA748850	Hs.125830	5.5		2216 6450
20	439999	ras homolog gene family, member E	AA115811	Hs.6838	5.5		3444 7426
	426013	ESTs	A1818098	Hs.4779	5.5		- 2160 6410
	426509	pentaxin-related gene, rapidly induced	M31166	Hs.2050	5.5	•	2243 2244 6468
	407874	Homo sapiens cDNA FLJ14059 fis, clone metanoma antigen, family D, 1	BE515037	Hs.289047 Hs.177556	5.5 5.5		175 4918 2322 6523
25	427378 414053	transgelin 2	BE391635	Hs.75725	5.5		774 5383
20	411894	GLI-Kruppel family member GLI3 (Greig of		Hs.72916	5.5		559 560 5212
	432692	ESTs	AW974944	Hs.285814	5.5		2899 6957
	426155	ESTs	AA370953	Hs.163553	5.5		2182 6426
20	411358	KIAA1691 protein	R47479	Hs.94761	5,5		527 5186
30	449129	ESTs	Al631602	Hs.258949	5.5		4066 7950
	432503	ESTs	AA551196	Hs.188952	5.5		2878 6940
	439130	ESTs	AA306090 AF131851	Hs.345588 Hs.22241	5.5 5.5		3378 7361 4042 4043 7931
	448848 413053	hypothetical protein ESTs, Moderately similar to KIAA1399 pr		Hs.65377	5.5		674 5306
35	432693	ESTs	AW449630	Hs.293790	5.5		2900 6958
50	425428	DKFZP586B0621 protein	AL110261	Hs.157211	5.5		2104 2105 6372
	451952	ESTs	AL120173	Hs.301663	5.5		4264 8111
	408562	roundabout (exon guidance receptor, Dro		Hs.31141	5.5		240 4971
40	441607	neuronal cell adhesion molecule	NM_005010		5.5		3526 3527 7499
40	427596	extracellular glycoprotein EMILIN-2 pre	AA449506	Hs.270143	5.5		2350 6544
	422532	protective protein for bela-galactosida	AL008726	Hs.118126	5.5 5.5		1697 1698 6083 4555 4556 8354
	457500 435538	protein kinase, interferon-inducible do low density lipoprotein receptor-relate	AB011540	Hs.2 74382 Hs.4930	5.5		3132 3133 7148
	448520	doublecortin and CaM kinase-like 1	AB002367	Hs.21355	. 5.5		4010 4011 7907
45	415689	ESTs	AW959615	Hs.111045	5.5		938 5512
	409248	KIAA1209 protein	AB033035	Hs.51965	5.5		330 331 5040
	408660	ESTs, Moderately similar to PC4259 ferr	AA525775	Hs.89040	5.5		247 4977
		2010, 110001400, 011004 01 0 1200 1011					
	445162	piccolo (presynaptic cytomatrix protein	AB011131	Hs.12376	5.5		3749 3750 7693
50	449029	piccolo (presynaptic cytomatrix protein solute carrier family 7 (cationic amino	AB011131 N28989	Hs.22891	5.5		3749 3750 7693 4058 7942
50	449029 400288	piccolo (presynaptic cytomatrix protein solute carrier family 7 (catlonic amino integrin, alpha 5 (fibronectin receptor	AB011131 N28989 X06256	Hs.22891 Hs.149609	5.5 5.4		3749 3750 7693 4058 7942 1 2 4614
50	449029 400288 400295	piccolo (presynaptic cytomatrix protein solute carrier family 7 (callonic amino integrin, alpha 5 (fibronectin receptor Al905687:IL-BT095-190199-019 BT095 I	AB011131 N28989 X06256 Iomo W72838	Hs.22891 Hs.149609 Hs.348419	5.5 5.4 5.4		3749 3750 7693 4058 7942 1 2 4614 6 4617
50	449029 400288	piccolo (presynaptic cytomatrix protein solute carrier family 7 (callonic amino integrin, alpha 5 (fibronectin receptor Al905687:IL-BT095-190199-019 BT095 I regulator of nonsense transcripts 1	AB011131 N28989 X06256	Hs.22891 Hs.149609 Hs.348419 Hs.12719	5.5 5.4		3749 3750 7693 4058 7942 1 2 4614
	449029 400288 400295 445439	piccolo (presynaptic cytomatrix protein solute carrier family 7 (catlonic amino integrin, alpha 5 (fibronectin receptor Al905687:IL-BT095-190199-019 BT095 I regulator of nonsense transcripts 1 bone morphogenetic protein 1 integrin, alpha 11	AB011131 N28989 X06256 Homo W72838 BE243084 U50330	Hs.22891 Hs.149609 Hs.348419	5.5 5.4 5.4 5.4		3749 3750 7693 4058 7942 1 2 4614 6 4617 3770 7708 1376 1377 5848 2787 2788 6870
50 55	449029 400288 400295 445439 419726 431457 417412	piccolo (presynaptic cytomatrix protein solute carrier family 7 (catlonic amino integrin, alpha 5 (fibronectin receptor Al905687:IL-BT095-190199-019 BT095 I regulator of nonsense transcripts 1 bone morphogenetic protein 1 integrin, alpha 11 interleukin 1 receptor, type I	AB011131 N28989 X06256 Homo W72838 BE243084 U50330 NM_012211 X16896	Hs.22891 Hs.149609 Hs.348419 Hs.12719 Hs.1274 Hs.2 56297 Hs.82112	5.5 5.4 5.4 5.4 5.4 5.4 5.4		3749 3750 7693 4058 7942 1 2 4614 6 4617 3770 7708 1376 1377 5848 2787 2788 6870 1116 1117 5652
	449029 400288 400295 445439 419726 431457 417412 417259	piccolo (presynaptic cytomatrix protein solute carrier family 7 (callonic amino integrin, alpha 5 (fibronecilin receptor Al905687:iL-BT095-190199-019 BT095 i regulator of nonsense transcripts 1 bone morphogenetic protein 1 integrin, alpha 11 interleukin 1 receptor, type i chondrollin sulfate proteoglycan 2 (ver	AB011131 N28989 X06256 Homo W72838 BE243084 U50330 NM_012211 X16896 AW903838	Hs.22891 Hs.149609 Hs.348419 Hs.12719 Hs.1274 Hs.2 56297 Hs.82112 Hs.81800	5.5 5.4 5.4 5.4 5.4 5.4 5.4 5.4		3749 3750 7693 4058 7942 1 2 4614 6 4617 3770 7708 1376 1377 5848 2787 2788 6870 1116 1117 5652 1092 5632
	449029 400288 400295 445439 419726 431457 417412 417259 418867	piccolo (presynaptic cytomatrix protein solute carrier family 7 (callonic amino integrin, alpha 5 (fibronecilin receptor Al905687:IL-BT095-190199-019 BT095 i regulator of nonsense transcripts 1 bone morphogenetic protein 1 integrin, alpha 11 interleukin 1 receptor, type i chordrollin sulfate proteoglycan 2 (ver msh (Drosophila) homeo box homolog 2	AB011131 N28989 X06256 Homo W72838 BE243084 U50330 NM_012211 X16896 AW903838 D31771	Hs.22891 Hs.149609 Hs.348419 Hs.12719 Hs.1274 Hs.2 56297 Hs.82112 Hs.81800 Hs.89404	5.5 5.4 5.4 5.4 5.4 5.4 5.4 5.4 5.4		3749 3750 7693 4058 7942 1 2 4614 6 4617 3770 7708 1376 1377 5848 2787 2788 6870 1116 1117 5652 1092 5632 1277 1278 5772
	449029 400288 400295 445439 419726 431457 417412 417259 418867 447709	piccolo (presynaptic cytomatrix protein solute carrier family 7 (callonic amino integrin, alpha 5 (fibronectin receptor Al905687:IL-BT095-190199-019 BT095 I regulator of nonsense transcripts 1 bone morphogenetic protein 1 integrin, alpha 11 interleukin 1 receptor, type 1 chordroli 1 receptor, type 1 chordroli 1 receptor (bye 1 chordroli 1 receptor) appara 2 (ver msh (Drosophila) homeo box homolog 2 GDNF family receptor alpha 2	AB011131 N28989 X06256 Homo W72836 BE243084 U50330 NM_012211 X16896 AW903838 D31771 U97145	Hs.22891 Hs.149609 Hs.348419 Hs.12719 Hs.1274 Hs.2 56297 Hs.82112 Hs.81800 Hs.89404 Hs.19317	5.5 5.4 5.4 5.4 5.4 5.4 5.4 5.4 5.4		3749 3750 7693 4058 7942 1 2 4614 6 4617 3770 7708 1376 1377 5848 2787 2788 6870 1116 1117 5652 1092 5632 1277 1278 5772 3949 3950 7856
55	449029 400288 400295 445439 419726 431457 417412 417259 418867 447709 430439	piccolo (presynaptic cytomatrix protein solute carrier family 7 (callonic amino integrin, alpha 5 (fibronectin receptor Al905687:ilBT095-190199-019 BT095 i regulator of nonsense transcripts 1 bone morphogenetic protein 1 integrin, alpha 11 interleukin 1 receptor, type 1 chondroltin sulfate proteoglycan 2 (ver msh (Drosophila) homeo box homolog 2 GDNF family receptor alpha 2 DKFZP4348061 protein	AB011131 N28989 X06256 Homo W72838 BE243084 U50330 NM_012211 X16896 AW903838 D31771 U97145 AL133561	Hs.22891 Hs.149609 Hs.348419 Hs.12719 Hs.1274 Hs.2 56297 Hs.82112 Hs.81800 Hs.89404 Hs.19317 Hs.380155	5.5 5.4 5.4 5.4 5.4 5.4 5.4 5.4 5.4 5.4		3749 3750 7693 4058 7942 1 2 4614 6 4617 3770 7708 1376 1377 5848 2787 2788 6870 1116 1117 5652 1092 5632 1277 1278 5772 3949 3950 7856 2695 2696 6803
	449029 400288 400295 445439 419726 431457 417412 417259 418867 447709 430439 429207	piccolo (presynaptic cytomatrix protein solute carrier family 7 (catlonic amino integrin, alpha 5 (fibronectin receptor Al905687:IL-BT095-190199-019 BT095 I regulator of nonsense transcripts 1 bone morphogenetic protein 1 integrin, alpha 11 interleukin 1 receptor, type I chondrollin sulfate proteoglycan 2 (ver msh (Drosophile) homeo box homolog 2 GDNF family receptor alpha 2 DKFZP434B081 protein ESTs	AB011131 N28989 X06256 Homo W72836 BE243084 U50330 NM_012211 X16896 AW903838 D31771 U97145 AL133561 AA447941	Hs.22891 Hs.149609 Hs.348419 Hs.12719 Hs.1274 Hs.2 56297 Hs.82112 Hs.81800 Hs.89404 Hs.19317	5.5 5.4 5.4 5.4 5.4 5.4 5.4 5.4 5.4		3749 3750 7693 4058 7942 1 2 4614 6 4617 3770 7708 1376 1377 5848 2787 2788 6870 1116 1117 5652 1092 5632 1277 1278 5772 3949 3950 7856
55	449029 400288 400295 445439 419726 431457 417412 417259 418867 447709 430439	piccolo (presynaptic cytomatrix protein solute carrier family 7 (callonic amino integrin, alpha 5 (fibronectin receptor Al905687:ilBT095-190199-019 BT095 i regulator of nonsense transcripts 1 bone morphogenetic protein 1 integrin, alpha 11 interleukin 1 receptor, type 1 chondroltin sulfate proteoglycan 2 (ver msh (Drosophila) homeo box homolog 2 GDNF family receptor alpha 2 DKFZP4348061 protein	AB011131 N28989 X06256 Homo W72836 BE243084 U50330 NM_012211 X16896 AW903838 D31771 U97145 AL133561 AA447941 BE395085	Hs.22891 Hs.149609 Hs.348419 Hs.12719 Hs.1274 Hs.2 56297 Hs.82112 Hs.81800 Hs.89404 Hs.89404 Hs.380155 Hs.123423	5.5 5.4 5.4 5.4 5.4 5.4 5.4 5.4 5.4 5.4		3749 3750 7693 4058 7942 1 2 4614 6 4617 3770 7708 1376 1377 5848 2787 2788 6870 1116 1117 5652 1092 5632 1277 1278 5772 3949 3950 7856 2695 2696 6603 2532 6686
55	449029 400288 400295 445439 419726 431457 417412 417259 418867 447709 430439 429207 444006	piccolo (presynaptic cytomatrix protein solute carrier family 7 (callonic amino integrin, alpha 5 (fibronecilin receptor Al905687:IL-BT095-190199-019 BT095 i regulator of nonsense transcripts 1 bone morphogenetic protein 1 integrin, alpha 11 interleukin 1 receptor, type i chondrollin sulfate proteoglycan 2 (ver msh (Drosophila) homeo box homolog 2 GDNF family receptor alpha 2 DKFZP434B061 protein ESTs type i transmembrane protein Fn14	AB011131 N2989 X06256 Homo W72838 BE243084 U50330 NM_012211 X16896 AW903838 D31771 U97145 AL133561 AA447941 BE395085 X91662	Hs.22891 Hs.149609 Hs.348419 Hs.12719 Hs.1274 Hs.2 56297 Hs.82112 Hs.81800 Hs.89404 Hs.19317 Hs.380155 Hs.123423 Hs.334762 Hs.566744 Hs.179729	5.5 5.4 5.4 5.4 5.4 5.4 5.4 5.4 5.4 5.4		3749 3750 7693 4058 7942 1 2 4614 6 4617 3770 7708 1376 1377 5848 2787 2788 6870 1116 1117 5652 1092 5632 1277 1278 5772 3949 3950 7856 2695 2696 6803 2532 6686 3668 7627 501 502 5164 2349 6543
55 60	449029 400288 400295 445439 419726 431457 417412 417259 418867 447709 430439 429207 444006 410889 427585 429101	piccolo (presynaptic cytomatrix protein solute carrier family 7 (callonic amino integrin, alpha 5 (fibronectin receptor Al905687:ilBT095-190199-019 BT095 i regulator of nonsense transcripts 1 bone morphogenetic protein 1 integrin, alpha 11 interleukin 1 receptor, type 1 chondroltin sulfate proteoglycan 2 (ver msh (Drosophile) homeo box homolog 2 GDNF family receptor alpha 2 DKFZP434B061 protein ESTs type 1 transmembrane protein Fn14 twist (Drosophila) homolog (acrocephalo collagen, type X, alpha 1 (Schmid metap uterine-derived 14 kDa protein	AB011131 N28989 X06256 Homo W72836 BE243084 U50330 NM_012211 X16896 AW903838 D31771 U97145 AL133551 AA447941 BE395085 X91662 D31152 AW452174	Hs.22891 Hs.149609 Hs.348419 Hs.12719 Hs.1274 Hs.2 56297 Hs.82112 Hs.81800 Hs.89404 Hs.19317 Hs.380155 Hs.123423 Hs.334762 Hs.66744 Hs.179729 Hs.173780	5.5 5.4 5.4 5.4 5.4 5.4 5.4 5.4 5.4 5.4		3749 3750 7693 4058 7942 1 2 4614 6 4617 3770 7708 1376 1377 5848 2787 2788 6870 1116 1117 5652 1092 5632 1277 1278 5772 3949 3950 7856 2695 2696 6803 2532 6686 3668 7627 501 502 5164 2349 6543 2513 6672
55	449029 400288 400295 445439 419726 431457 417412 417259 418867 447709 430439 429207 444006 410889 427585 429101 447197	piccolo (presynaptic cytomatrix protein solute carrier family 7 (callonic amino integrin, alpha 5 (fibronecilin receptor Al905687:iL-BT095-190199-019 BT095 I regulator of nonsense transcripts 1 bone morphogenetic protein 1 integrin, alpha 11 interleukin 1 receptor, type I chondrollin sulfate proteoglycan 2 (ver msh (Drosophile) homeo box homolog 2 GDNF family receptor alpha 2 DKFZP434B061 protein ESTs type I transmembrane protein Fn14 twist (Drosophile) homolog (acrocephalo collagen, type X, alpha 1 (Schmid metap uterine-derived 14 kDa protein gb:yh88b01.s1 Soares placenta Nb2HP)	AB011131 NZ8989 X06256 Homo W72838 BE243084 U50330 NM_012211 X16896 AW903838 D31771 U97145 AL133561 AA447941 BE395085 X91662 D31152 AW452174 Hom R36075	Hs.22891 Hs.149609 Hs.348419 Hs.12719 Hs.12774 Hs.2 56297 Hs.82112 Hs.81800 Hs.89404 Hs.19317 Hs.380155 Hs.123423 Hs.334762 Hs.66744 Hs.179729 Hs.173780 Hs.358552	5.5 5.4 5.4 5.4 5.4 5.4 5.4 5.4 5.4 5.4		3749 3750 7693 4058 7942 1 2 4614 6 4617 3770 7708 1376 1377 5848 2787 2788 6872 1116 1117 5652 1092 5632 1277 1278 5772 3949 3950 7856 2695 2696 6803 2532 6686 3668 7627 501 502 5164 2349 6543 2513 6672 3897 7813
55 60	449029 400288 400295 445439 419726 431457 417412 417259 418867 447709 430439 429207 444006 410889 427585 429101 447197 422648	piccolo (presynaptic cytomatrix protein solute carrier family 7 (callonic amino integrin, alpha 5 (fibronecilin receptor Al905687:IL-BT095-190199-019 BT095 i regulator of nonsense transcripts 1 bone morphogenetic protein 1 integrin, alpha 11 interleukin 1 receptor, type 1 chondrollin sulfate proteoglycan 2 (ver msh (Drosophila) homeo box homolog 2 GDNF family receptor alpha 2 DKFZP434B061 protein ESTs type 1 transmembrane protein Fn14 twist (Drosophila) homolog (acrocephalo collagen, type X, alpha 1 (Schmid metap uterle-derived 14 kDa protein gbryh88b01.s1 Soares placenta Nb2HP Melanoma associated gene	AB011131 NZ8989 X06256 Iomo W72838 BE243084 U50330 NM_012211 X16896 AW903838 D31771 U97145 AL133561 AA447941 BE395085 X91662 D31152 AW452174 Hom R36075 D86983	Hs.22891 Hs.149609 Hs.348419 Hs.12719 Hs.1274 Hs.2 56297 Hs.82112 Hs.81800 Hs.89404 Hs.19317 Hs.380155 Hs.123423 Hs.173780 Hs.173780 Hs.365552 Hs.118893	5.5 5.4 5.4 5.4 5.4 5.4 5.4 5.4 5.4 5.4		3749 3750 7693 4058 7942 1 2 4614 6 4617 3770 7708 1376 1377 5848 2787 2788 6870 1116 1117 5652 1092 5632 1277 1278 5772 3949 3950 7856 2695 2696 6803 2532 6686 3668 7627 501 502 5164 2349 6543 2513 6672 3897 7813 1720 1721 6100
55 60	449029 400288 400295 445439 419726 431457 417412 417259 418867 447709 430439 429207 444006 410889 427585 429101 447197 422648 426485	piccolo (presynaptic cytomatrix protein solute carrier family 7 (callonic amino integrin, alpha 5 (fibronecilin receptor Al905687:IL-BT095-190199-019 BT095 I regulator of nonsense transcripts 1 bone morphogenetic protein 1 integrin, alpha 11 interleukin 1 receptor, type 1 chondrollin sulfate proteoglycan 2 (ver msh (Drosophila) homeo box homolog 2 GDNF family receptor alpha 2 DKFZP434B061 protein ESTs type 1 transmembrane protein Fn14 twist (Drosophila) homolog (acrocephalo collagen, type X, alpha 1 (Schmid metap uterine-derived 14 kDa protein gb:yh88b01.s1 Soares placenta Nb2HP Melanoma associated gene platelet-derived growth factor receptor	AB011131 N2989 X06256 Iomo W72838 BE243084 U50330 NM_012211 X16896 AW903838 D31771 U97145 AL133561 AA447941 BE395085 X91662 D31152 AW452174 Iom R36075 D86983 NM_006207	Hs.22891 Hs.149609 Hs.348419 Hs.12719 Hs.1274 Hs.2 56297 Hs.82112 Hs.81800 Hs.89404 Hs.19317 Hs.380155 Hs.123423 Hs.173780 Hs.173780 Hs.173780 Hs.173780 Hs.173893 Hs.170040	5.5 5.4 5.4 5.4 5.4 5.4 5.4 5.4 5.4 5.4	. ,	3749 3750 7693 4058 7942 1 2 4614 6 4617 3770 7708 1376 1377 5848 2787 2788 6870 1116 1117 5652 1092 5632 1277 1278 5772 3949 3950 7856 2695 2696 6803 2532 6685 3668 7627 501 502 5164 2349 6543 2513 6672 3897 7813 1720 1721 6100 2238 2239 6465
55 60	449029 400288 400295 445439 419726 431457 417412 417259 418867 447709 430439 429207 444006 410889 427585 429101 447197 426485 426485 421787	piccolo (presynaptic cytomatrix protein solute carrier family 7 (callonic amino integrin, alpha 5 (fibronectin receptor Al905687:IL-BT095-190199-019 BT095 I regulator of nonsense transcripts 1 bone morphogenetic protein 1 integrin, alpha 11 interleukin 1 receptor, type 1 chondrolin sulfate proteoglycan 2 (ver msh (Drosophila) homeo box homolog 2 GDNF family receptor alpha 2 DKFZP434B061 protein ESTs type I transmembrane protein Fn14 twist (Drosophila) homolog (acrocephalo collagen, type X, alpha 1 (Schmid metap uterine-derived 14 kDa protein gbryh88b01.a1 Soares placenta Nb2HP Melanoma associated gene platelet-derived growth factor receptor nuclear receptor subfamily 2, group C,	AB011131 N28989 X06256 Homo W72836 BE243084 U50330 NM_012211 X16896 AW903838 D31771 U97145 AL133561 AA47941 BE395085 X91662 D31152 AW452174 Hom R36075 D86983 NM_006207 AA227068	Hs.22891 Hs.149609 Hs.348419 Hs.12719 Hs.1274 Hs.2 56297 Hs.82112 Hs.81800 Hs.39404 Hs.19317 Hs.380155 Hs.123423 Hs.334762 Hs.179729 Hs.179729 Hs.179780 Hs.358555 Hs.118893 Hs.170040 Hs.108301	5.5 5.4 5.4 5.4 5.4 5.4 5.4 5.4 5.4 5.4		3749 3750 7693 4058 7942 1 2 4614 6 4617 3770 7708 1376 1377 5848 2787 2788 6870 1116 1117 5652 1092 5632 1277 1278 5772 3949 3950 7856 2695 2696 6803 2532 6686 3668 7627 501 502 5164 2349 6543 2513 6672 3897 7813 1720 1721 6100 2338 2339 6465 1594 6006
556065	449029 400288 400295 445439 419726 431457 417412 417259 418867 447709 430439 429207 444006 410889 427585 429101 447197 422648 426485 421787 408741	piccolo (presynaptic cytomatrix protein solute carrier family 7 (callonic amino integrin, alpha 5 (fibronecilin receptor Al905687:IL-BT095-190199-019 BT095 I regulator of nonsense transcripts 1 bone morphogenetic protein 1 integrin, alpha 11 interleukin 1 receptor, type I chondrollin sulfate proteoglycan 2 (ver msh (Drosophila) homeo box homolog 2 GDNF family receptor alpha 2 DKFZP434B061 protein ESTs type I transmembrane protein Fn14 twist (Drosophila) homolog (acrocephalo collagen, type X, alpha 1 (Schmid metap uterine-derived 14 kDa protein gb:yh88b01.s1 Soares placenta Nb2HP Melanoma associated gene platelet-derived growth factor receptor nuclear receptor subfamily 2, group C, carboxypeptidase A3 (mast cell)	AB011131 NZ8989 X06256 Idomo W72838 BE243084 U50330 NM_012211 X16896 AW903838 D31771 U97145 AL133551 AA447941 BE395085 X91662 D31152 AW452174 Idom R36075 D86983 NM_006207 AA227068 M73720	Hs.22891 Hs.149609 Hs.348419 Hs.12719 Hs.12774 Hs.2 56297 Hs.82112 Hs.81800 Hs.99404 Hs.19317 Hs.380155 Hs.123423 Hs.334762 Hs.66744 Hs.179729 Hs.173780 Hs.368552 Hs.118893 Hs.1 70040 Hs.108301 Hs.646	5.5 5.4 5.4 5.4 5.4 5.4 5.4 5.4 5.4 5.4		3749 3750 7693 4058 7942 1 2 4614 6 4617 3770 7708 1376 1377 5848 2787 2788 6870 1116 1117 5652 1092 5632 1277 1278 5772 3949 3950 7856 2695 2696 6803 2532 6685 3668 7627 501 502 5164 2349 6543 2513 6672 3897 7813 1720 1721 6100 2238 2239 6465
55 60	449029 400288 400295 445439 419726 431457 417412 417259 418867 447709 430439 429207 444006 410889 427585 429101 447197 426485 426485 421787	piccolo (presynaptic cytomatrix protein solute carrier family 7 (callonic amino integrin, alpha 5 (fibronectin receptor Al905687:IL-BT095-190199-019 BT095 I regulator of nonsense transcripts 1 bone morphogenetic protein 1 integrin, alpha 11 interleukin 1 receptor, type 1 chondrolin sulfate proteoglycan 2 (ver msh (Drosophila) homeo box homolog 2 GDNF family receptor alpha 2 DKFZP434B061 protein ESTs type I transmembrane protein Fn14 twist (Drosophila) homolog (acrocephalo collagen, type X, alpha 1 (Schmid metap uterine-derived 14 kDa protein gbryh88b01.a1 Soares placenta Nb2HP Melanoma associated gene platelet-derived growth factor receptor nuclear receptor subfamily 2, group C,	AB011131 N28989 X06256 Homo W72836 BE243084 U50330 NM_012211 X16896 AW903838 D31771 U97145 AL133561 AA47941 BE395085 X91662 D31152 AW452174 Hom R36075 D86983 NM_006207 AA227068	Hs.22891 Hs.149609 Hs.348419 Hs.12719 Hs.1274 Hs.2 56297 Hs.82112 Hs.81800 Hs.39404 Hs.19317 Hs.380155 Hs.123423 Hs.334762 Hs.179729 Hs.179729 Hs.179780 Hs.358555 Hs.118893 Hs.170040 Hs.108301	5.5 5.4 5.4 5.4 5.4 5.4 5.4 5.4 5.4 5.4		3749 3750 7693 4058 7942 1 2 4614 6 4617 3770 7708 1376 1377 5848 2787 2788 6870 1116 1117 5652 1092 5632 1277 1278 5772 3949 3950 785 2695 2696 6803 2532 6686 3668 7627 501 502 5164 2349 6543 2513 6672 3897 7813 1720 1721 6100 2238 2239 6465 1594 6006 252 253 4982
556065	449029 400288 400295 445439 419726 431457 417412 417259 418867 447709 430439 429207 44006 410889 427585 429101 447197 422648 426485 421787 408741 433895 453596	piccolo (presynaptic cytomatrix protein solute carrier family 7 (callonic amino integrin, alpha 5 (fibronecilin receptor Al905687:IL-BT095-190199-019 BT095 I regulator of nonsense transcripts 1 bone morphogenetic protein 1 integrin, alpha 11 interleukin 1 receptor, type 1 chondrollin sulfate proteoglycan 2 (ver msh (Drosophila) homeo box homolog 2 GDNF family receptor alpha 2 DKFZP434B061 protein ESTs type I transmembrane protein Fn14 twist (Drosophila) homolog (acrocephało collagen, type X, alpha 1 (Schmid metap uterine-derived 14 kDa protein gb:yh88b01.s1 Soares placenta Nb2HP Melanoma associated gene platelet-derived growth factor receptor nuclear receptor subfamily 2, group C, carboxypeptidase A3 (mast cell) ESTs milogen-activated protein kinase kinase hypothetical protein FLJ14834	AB011131 N2989 X06256 Idomo W72838 BE243084 U50330 NM_012211 X16896 AW903838 D31771 U97145 AL133561 AA447941 BE395085 X91662 D31152 AW452174 Idom R36075 D86983 NM_006207 AA227068 M73720 AI638728 AI638728 AI638728 AI638728 AI6387912 AA441838	Hs.22891 Hs.149609 Hs.348419 Hs.12719 Hs.1274 Hs.2 56297 Hs.82112 Hs.81800 Hs.39404 Hs.19317 Hs.380155 Hs.123423 Hs.34762 Hs.179729 Hs.173780 Hs.173780 Hs.179729 Hs.173780 Hs.173780 Hs.175159 Hs.175159 Hs.175159 Hs.175159	5.5 5.4 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5		3749 3750 7693 4058 7942 1 2 4614 6 4617 3770 7708 1376 1377 5848 2787 2788 6870 1116 1117 5652 1092 5632 1277 1278 5772 3949 3950 7856 2695 2696 6803 2532 6686 3668 7627 3697 7613 2513 6672 3897 7813 1720 1721 6100 2238 2239 6465 1594 6006 252 253 4982 3607 7574 3014 7048 4428 8248
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5560657075	449029 400288 400295 445439 419726 431457 417412 417259 418867 447709 430439 429207 444006 410889 427585 429101 447197 422648 426485 421787 408741 443184 433895 453596 424001 411263 447414 450296 421506 424192 416140 452877 433819	piccolo (presynaptic cytomatrix protein solute carrier family 7 (callonic amino integrin, alpha 5 (fibronecilin receptor Al905687:IL-BT095-190199-019 BT095 I regulator of nonsense transcripts 1 bone morphogenetic protein 1 integrin, alpha 11 interleukin 1 receptor, type 1 chondrollin sulfate proteoglycan 2 (ver msh (Drosophila) homeo box homolog 2 GDNF family receptor alpha 2 DKFZP434B061 protein ESTs type 1 transmembrane protein Fn14 twist (Drosophila) homolog (acrocephalo collagen, type X, alpha 1 (Schmid metap uterine-derived 14 kDa protein gb:yh88b01.s1 Soares placenta Nb2HP Melanoma associated gene platelet-derived growth factor receptor nuclear receptor subfamily 2, group C, carboxypeptidase A3 (mast cell) ESTs milogen-activated protein kinase kinase hypothetical protein FLJ14834 paternally expressed 10 kinesin-like 6 (mitolic centromere-asso neuroblastoma (nerve tissue) protein hepatocyte growth factor-regulated tyro thymidine kinase 1, soluble P311 protein roundabout (axon guidance receptor, DreSTs	AB011131 N2989 X06256 Idmo W72838 BE243084 U50330 NM_012211 X16896 AW903838 D31771 U97145 AL133561 AA447941 BE395085 X91662 D31152 AW452174 Idm R36075 D86983 NM_006207 AA227068 M73720 AI638728 AI287912 AA441838 W67883 BE297802 D82343 AL041949 BE302796 U30521 D41918035 AU50789 AW511097	Hs.22891 Hs.149609 Hs.348419 Hs.12719 Hs.1274 Hs.2 56297 Hs.82112 Hs.81810 Hs.38117 Hs.380155 Hs.133473 Hs.3646 Hs.135159 Hs.17040 Hs.108301 Hs.646 Hs.135159 Hs.137476 Hs.69360 Hs.74376 Hs.69360 Hs.74376 Hs.105097 Hs.142827 Hs.301198 Hs.301198 Hs.30198 Hs.319669	5.5.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4		3749 3750 7693 4058 7942 1 2 4614 6 4617 3770 7708 1376 1377 5848 2787 2788 6870 1116 1117 5652 1092 5632 1277 1278 5772 3949 3950 7856 2695 2696 6803 2532 6685 3668 7627 501 502 5164 2349 6543 2513 6672 3897 7813 1720 1721 6100 2238 2239 6465 1594 6006 252 253 4982 3607 7574 3014 7048 4428 8248 1882 6217 523 5182 3924 3925 7834 4153 8023 1550 5976 1911 1912 6238 978 5545 4393 3007 7042
5560657075	449029 400288 400295 445439 419726 431457 417412 417259 418867 447709 430439 429207 444006 410889 427585 429101 447197 422648 426485 421787 408741 443184 433895 424001 411263 447414 450296 421506 42192 416140 452877 433819 440856	piccolo (presynaptic cytomatrix protein solute carrier family 7 (callonic amino integrin, alpha 5 (fibronecilin receptor Al905687:IL-BT095-190199-019 BT095 I regulator of nonsense transcripts 1 bone morphogenetic protein 1 integrin, alpha 11 interleukin 1 receptor, type I chondrollin sulfate proteoglycan 2 (ver msh (Drosophile) homeo box homolog 2 GDNF family receptor alpha 2 DKFZP434B061 protein ESTs type I transmembrane protein Fn14 twist (Drosophile) homolog (acrocephalo collagen, type X, alpha 1 (Schmid metap uterine-derived 14 kDa protein gb:yh88b01.s1 Soares placenta Nb2HP Melanoma associated gene platelet-derived growth factor receptor nuclear receptor subfamily 2, group C, carboxypeptidase A3 (mast cell) ESTs milogen-activated protein FLJ14834 paternally expressed 10 kinesin-like 6 (mitotic centromere-asso neuroblastoma (nerve tissue) protein hepatocyte growth factor-regulated tyro thymidine kinase 1, soluble P311 protein roundabout (axon guidance receptor, DreSTs ESTs	AB011131 NZ8989 X06256 Iomo W72838 BE243084 U50330 NM_012211 X16896 AW903838 D31771 U97145 AL133561 AA447941 BE395085 X91662 D31152 AW452174 Iom R36075 D86983 NM_006207 AA227068 M73720 AI638728 AI287912 AA441838 W67883 BE297802 D82343 AL041949 8E302796 U30521 D4198035 D4198	Hs.22891 Hs.149609 Hs.348419 Hs.12719 Hs.12774 Hs.2 56297 Hs.82112 Hs.81800 Hs.38419 Hs.13317 Hs.380155 Hs.123423 Hs.334762 Hs.37780 Hs.179729 Hs.173780 Hs.179729 Hs.173780 Hs.178090 Hs.135159 Hs.17476 Hs.62905 Hs.135159 Hs.62905 Hs.137476 Hs.63600 Hs.74376 Hs.63900 Hs.74376 Hs.63909 Hs.32478 Hs.301198 Hs.32478 Hs.301390 Hs.32478 Hs.30390	5.5.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4		3749 3750 7693 4058 7942 1 2 4614 6 4617 3770 7708 1376 1377 5848 2787 2788 6870 1116 1117 5652 1092 5632 1277 1278 5772 3949 3950 7856 2695 2696 6803 2532 6686 3668 7627 501 502 5164 2349 6543 2513 6672 3897 7813 1720 1721 6100 2238 2239 6465 1594 6006 252 253 4982 3607 7574 3014 7048 428 8248 4882 6217 523 5182 3924 3925 7834 4153 8023 1550 5976 1911 1912 6238 978 5545 4364 8193 3007 7042 3489 7465
5560657075	449029 400288 400295 445439 419726 431457 417412 417259 418867 447709 430439 429207 444006 410889 427585 429101 447197 422648 426485 421787 408741 443184 433895 423091 4411263 447414 450296 42192 416140 452877 43819 440856 432101	piccolo (presynaptic cytomatrix protein solute carrier family 7 (callonic amino integrin, alpha 5 (fibronectin receptor Al905687:IL-BT095-190199-019 BT095 i regulator of nonsense transcripts 1 bone morphogenetic protein 1 integrin, alpha 11 interleukin 1 receptor, type 1 chondrollin sulfate proteoglycan 2 (ver msh (Drosophila) homeo box homolog 2 GDNF family receptor alpha 2 DKFZP434B061 protein ESTs type 1 transmembrane protein Fn14 twist (Drosophila) homolog (acrocephalo collagen, type X, alpha 1 (Schmid metap uterine-derived 14 kDa protein gbryh88b01s1 Soares placenta Nb2HP Melanoma associated gene platelet-derived growth factor receptor nuclear receptor subfamily 2, group C, carboxypeptidase A3 (mast cell) ESTs mitogen-activated protein kinase kinase hypothetical protein FLJ14834 palemally expressed 10 kinesin-like 6 (mitotic centromere-asso neuroblastoma (nerve tissue) protein hepatocyte growth factor-regulated tyro thymidine kinase 1, soluble P311 protein roundabout (axon guidance receptor, DreSTs ESTs EphA3	AB011131 NZ989 X06256 Iomo W72836 BE243084 U50330 NM_012211 X16896 AW903838 D31771 U97145 AL133561 AA447941 BE395085 X91662 D31152 AW452174 Hom R36075 D86983 NM_006207 AA227068 M73720 AI638728 AI287912 AA441838 W67883 BE297802 D82343 AL041949 BE302796 U30521 D418035 AI250789 AW953377 AW953377 AW953377 AW953377 AW953377	Hs.22891 Hs.149609 Hs.348419 Hs.12719 Hs.1274 Hs.2 56297 Hs.82112 Hs.81800 Hs.89404 Hs.19317 Hs.380155 Hs.123423 Hs.34762 Hs.66744 Hs.179729 Hs.179729 Hs.173780 Hs.170400 Hs.108301 Hs.108301 Hs.135159 Hs.368552 Hs.135159 Hs.3628 Hs.62905 Hs.137476 Hs.24756 Hs.105097 Hs.301198 Hs.32478 Hs.310069 Hs.324786 Hs.130390 Hs.123642	5.5.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4		3749 3750 7693 4058 7942 1 2 4614 6 4617 3770 7708 1376 1377 5848 2787 2788 6870 1116 1117 5652 1092 5632 1277 1278 5772 3949 3950 7856 2695 2696 6803 2532 6686 3668 7627 501 502 5164 2349 6543 2513 6672 3897 7813 1720 1721 6100 2238 2239 6465 1594 6006 582 2553 4982 3607 7574 3014 7048 4428 8248 1882 6217 523 5182 3924 3925 7834 4153 8023 1550 5976 1911 1912 6238 978 5545 4364 8193 3007 7042 3489 7465 2841 6909
5560657075	449029 400288 400295 445439 419726 431457 417412 417259 418867 447709 430439 429207 444006 410889 427585 429101 447197 422648 426485 421787 408741 443184 433895 424001 411263 447414 450296 421506 42192 416140 452877 433819 440856	piccolo (presynaptic cytomatrix protein solute carrier family 7 (callonic amino integrin, alpha 5 (fibronecilin receptor Al905687:IL-BT095-190199-019 BT095 I regulator of nonsense transcripts 1 bone morphogenetic protein 1 integrin, alpha 11 interleukin 1 receptor, type I chondrollin sulfate proteoglycan 2 (ver msh (Drosophile) homeo box homolog 2 GDNF family receptor alpha 2 DKFZP434B061 protein ESTs type I transmembrane protein Fn14 twist (Drosophile) homolog (acrocephalo collagen, type X, alpha 1 (Schmid metap uterine-derived 14 kDa protein gb:yh88b01.s1 Soares placenta Nb2HP Melanoma associated gene platelet-derived growth factor receptor nuclear receptor subfamily 2, group C, carboxypeptidase A3 (mast cell) ESTs milogen-activated protein FLJ14834 paternally expressed 10 kinesin-like 6 (mitotic centromere-asso neuroblastoma (nerve tissue) protein hepatocyte growth factor-regulated tyro thymidine kinase 1, soluble P311 protein roundabout (axon guidance receptor, DreSTs ESTs	AB011131 NZ989 X06256 Iomo W72836 BE243084 U50330 NM_012211 X16896 AW903838 D31771 U97145 AL133561 AA447941 BE395085 X91662 D31152 AW452174 Hom R36075 D86983 NM_006207 AA227208 M73720 AI638728 AI287912 AA441838 W67883 BE297802 D82343 AL041949 8E302796 U30521 D418035 AI250789 AW511097 AW933377 AI918950 (H. R39234	Hs.22891 Hs.149609 Hs.348419 Hs.12719 Hs.12774 Hs.2 56297 Hs.82112 Hs.81800 Hs.38419 Hs.13317 Hs.380155 Hs.123423 Hs.334762 Hs.37780 Hs.179729 Hs.173780 Hs.179729 Hs.173780 Hs.178090 Hs.135159 Hs.17476 Hs.62905 Hs.135159 Hs.62905 Hs.137476 Hs.63600 Hs.74376 Hs.63900 Hs.74376 Hs.63909 Hs.32478 Hs.301198 Hs.32478 Hs.301390 Hs.32478 Hs.30390	5.5.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4		3749 3750 7693 4058 7942 1 2 4614 6 4617 3770 7708 1376 1377 5848 2787 2788 6870 1116 1117 5652 1092 5632 1277 1278 5772 3949 3950 7856 2695 2696 6803 2532 6686 3668 7627 501 502 5164 2349 6543 2513 6672 3897 7813 1720 1721 6100 2238 2239 6465 1594 6006 252 253 4982 3607 7574 3014 7048 428 8248 4882 6217 523 5182 3924 3925 7834 4153 8023 1550 5976 1911 1912 6238 978 5545 4364 8193 3007 7042 3489 7465

	424000	at the demonstration of the second				
	434269	similar to murine leucine-rich repeat p	AK001991	Hs.3781	5.3 ·	3037 3038 7069
	420255	membrane metallo-endopeptidase (neutra	al NM_007289	Hs.1298	5.3	1438 1439 5896
	438828	hypothetical protein DKFZp761F2014	AL134275	Hs.6434	5.3	3356 7340
5	400297	hypothetical protein DKFZp564O1278	AJ127076	Hs.288381	5.3	7 4618
5	422100	ADP-ribosylation factor-like 7	A1096988	Hs.111554	5.3	1644 6042
	441944	Homo sapiens clone 23767 and 23782 m	RNA AW85588	31 Hs.8025	5.3	3541 7513
	407603	Homo sapiens, clone IMAGE:4299322, m		05 Hs.62604	5.3	144 4890
	453830	ESTs	AA534296	Hs.20953	5.3	4445 B263
10	456181	ras inhibitor	L36463	Hs.1030	5.3	4516 4517 8321
10	412773	similar to vaccinia virus Hindill K4L O	H15785	Hs.74573	5.3	639 5276
	419405	ESTs	Al377043	Hs.42189	5.3	1333 5816
	432791	sentrin/SUMO-specific protease	NM_014554		5.3	2907 2908 6963
	419999	ESTs	AJ760942	Hs.191754	5.3	1406 5870 ·
15	420238	ESTs, Weakly similar to 2109260A B cell		Hs.12549	5.3	1436 5894
13	456063	retinol-binding protein 4, interstitlat	NM_006744		5.3	4511 4512 8317
	437342	hypothetical protein DKFZp761K1423	AW903297	Hs.236438	5.3	3254 7251
	423057 426148	ESTs, Moderately similar to 138022 hypo	AW961597	Hs.130816	5.3	1773 6139
	417153	Homo saplens cDNA FLJ10728 fis, clone collagen, type II, alpha 1 (primary ost		Hs.167135	5.3	2179 6424
20	419987	osteomodulin	X57010	Hs.81343	5.3	1084 1085 5625
	409170	ESTs	NM_005014 W91994	Hs.16145	5.3	1402 1403 5868
	414312	ESTs	AA155694	Hs.191060	5.3	317 5030
	418452	C-type (calcium dependent, carbohydrate		Hs.85201	5.3 5.3	800 5407
	426471	transforming growth factor, alpha	M22440	Hs.170009	5.2	1241 5744 2233 2234 6462
25	428342	Homo sapiens cDNA FLJ13458 fis, clone	P AI739168	Hs.349283	5.2	2432 6611
	444829	ubiquitin specific protease 22	AB028986	Hs.12064	5.2	3726 3727 7674
	443191	a disintegrin-like and metalloprotease	N93301	Hs.155824	5.2	3608 7575
	448197	KIAA1303 protein	AB037724	Hs.20677	5.2	3984 3985 7885
	414919	ESTs .	AW087337	Hs.194461	5.2	890 5474
30	439319	ESTs	AW016401	Hs.2549	5.2	3392 7375
	424898	ESTs	H17954	Hs.6664	5.2	2021 6314
	412577	CD163 antigen	Z22968	Hs.74076	5,2	608 609 5252
	419437	neogenin (chicken) homolog 1	U61262	Hs.90408	5.2	1338 1339 5820
25	408161	hypothetical protein MGC3032	AW952912	Hs.300383	5.2	195 4937
35	421485	hypothetical protein FLJ10134	AA243499	Hs.104800	5.2	1547 5974
	422550	microfibrillar-associated protein 4	BE297626	Hs.296049	5.2	1699 6084
	426716	sema domain, Immunoglobulin domain (Ig		Hs.171921	5.2	2264 2265 6481
	417079	interleukin 1 receptor antagonist		Hs.81134	5.2	1073 1074 5616
40	439668	frizzled (Drosophila) homolog 8		Hs.302634	5.2	3414 7397
40	452682 422170	progesterone membrane binding protein		Hs.374574	5.2	4340 8174
		anti-Mullerian hormone		Hs.112432	5.2	1655 6051
	407216 421233	lysyl oxidase		Hs.348385	5.2	123 4875
	436608	tetraspan NET-6 protein		Hs.284243	5.2	1518 5955
45	428698	down syndrome critical region protein D KIAA1866 protein		Hs.192371	5.2	3205 7207
,,,	414821	Fc fragment of IgG, high affinity la, r		Hs.334838	5.2	2463 6635
	426304	Homo sapiens cDNA FU11477 fis, clone		Hs.77424	5.2	876 877 5465
	449679	tolloid-like 1		Hs.124673	5.1 5.1	2198 6438
	410108	OSBP-related protein 6		Hs.129700 Hs.318775	5.1	4106 7986
50	409509	ESTs		Hs.322710	5.1	423 5108 353 5056
	434868	collagen, type VI, alpha 2		Hs.159263	5.1	3085 7106
	449897	transmembrane protein vezatin; hypothet		Hs.24135	5.1	4120 7998
	414024	gb:zm79g08.r1 Stratagene neuroepitheliu		Hs.22410	5.1	769 5379
	418506	Unknown protein for MGC:29643 (formerly		Hs.372651	5.1	1247 5748
55	433513	ESTs		Hs.171437	5.1	2985 7024
	416406	lipoma HMGIC fusion partner-like 2		Hs.79299	5.1	1001 1002 5564
	452078	ESTs		Hs.52170	5.1	4283 8126
	416986	ESTs	AJ471952	Hs.148676	5.1	1057 5603
6 0	429480	elastin (supravalvular aortic stenosis,	M36860	Hs.9295	5.1	2565 2566 6712
60	439703	ESTs	AF086538	Hs.196245	5.1	3420 7403
	414117	proteolipid protein 1 (Pelizaeus-Merzba		Hs.355807	5.1	777 5386
	408996	glycoprotein (transmembrane) nmb		Hs.82226	5.1	291 5011
	434431	ESTs		Hs.168571	5.1	3056 7082
65	440676 447217		NM_004987 H		5.1	3479 3480 7457
05	421362	neuropilin 2 hypothetical protein FLJ20043		Hs.17778	5.1	3904 7819
	441389		AK000050	Hs.103853	5.1	1531 1532 5965
	423857	endocytic receptor (macrophage mannose Homo sepiens mRNA; cDNA DKFZp5640	0000 N40000	Hs.7835	5.1	3514 3515 7488
	410132	Microfibril-associated glycoprotein-2			5.1	1857 6200
70	452410	Homo sapiens mRNA; cDNA DKFZp434E	NM_003480 H	15.3 00946	5.1	425 426 5110
. •	423989					4328 4329 8163
	441362	RAD51 (S. cerevisiae) homolog (E coli R	BE614410	Hs.137168 Hs.23044	5.1 5.1	1880 1881 6216 3512 7486
	426283		NM_003937 H		5.0	2192 2193 6435
	435854			Hs.4996	5.0	3157 3158 7166
75	448425	ESTs	Al500359 I	Hs.371249	5.0	4004 7901
	439332	Homo sapiens mRNA; cDNA DKFZp547M	072 (f AW8427	47 Hs.37882	1 5.0	3393 7376
	422565				5.0	1701 6086
	450746	general transcription factor II, i			5.0	4187 8051
٥٥	421822	coagulation factor XI (plasma thrombop)			5.0	1599 6010
80	452958	ESTs	AA883929 1		5.0	4372 8200
	448410				5.0	4000 4001 7898
	437829	ESTs	A1358522 I		5.0	3289 7282
	426479 446512	mouse double minute 2, human homolog o			5.0	2235 2236 6463
85	446512 437139	ESTS	H30351 I		5.0	3848 7771
55	442657	ESTs, Weakly similar to RTA RAT PROBA			5.0 5.0	3238 7236
	*******	20.0	BE502631	ls.130645	5.0	3576 7546

	436291		BE568452	Hs.344037	5.0	3180 7185
	408988	Homo sapiens clone TUA8 Cri-du-chal reg		Hs.49476	5.0	289 5009
	408968	Whoman burners =	A1652236 AA931532	Hs.49376 Hs.126836	5.0 5.0	286 5007 3513 7487
5	441368 420737	2013	L08096	Hs.99899	5.0	1473 1474 5920
,	420173	FSTs	AA256151	Hs.22999	5.0	1426 5886
	443920	Homo sapiens cDNA FLJ13655 fis, clone I	AL037764 Al964074	Hs.35304 Hs.225838	5.0 5.0	3659 7620 3120 7136
	435370		Al633770	Hs.42572	5.0	4470 8281
10	453935 412942	mitogen-activated protein kinase-activa	AL120344	Hs.75074	5.0	658 5293
20	456534	phospholipase C, beta 3, neighbor pseud	X91195	Hs.100623	5.0	4522 8326
	413094	TOLLIP protein	H24184 AW954064	Hs.25413 Hs.24951	5.0 5.0	680 5311 900 5481
	415014 412992	ESTs protease, serine, 11 (IGF binding)	A1423369	Hs.75111	5.0	666 5299
15	424512	integrin, beta 5	X53002	Hs.149846	5.0	1968 1969 6277
	449969	Homo sapiens cDNA FLJ14337 fis, clone	P AW295142	Hs.180187	5.0	4123 8001
	448498	ESTs	AA418276	Hs.375003 Hs.3 01658	5.0 5.0	4007 7904 1239 1240 5743
	418423 416051	KIAA0513 gene product mannosidase, alpha, class 1A, member 1		Hs.25253	5.0	966 5534
- 20	431448	hypothetical protein DKFZp56401278	AL137517	Hs.306201	5.0	2785 2786 6869
	423400	Homo sapiens mRNA; cDNA DKFZp434N	1038 (f AL122	123 Hs.1279	58 5.0	1802 6159 216 4951
	408374	forkhead box F1 ESTs	AW025430 AA358883	Hs.155591 Hs.23871	5.0 5.0	210 4551
	425525 425703	collagen, type VI, alpha 2	X06195	Hs.159263	5.0	2126 2127 6387
25	457464	ESTs	AW972234	Hs.126680	4.9	4554 8353
	419452	PTK7 protein tyrosine kinase 7	U33635	Hs.90572 Hs.106137	4.9 4.9	1340 1341 5821 630 5268
	412708 425818	ESTs, Weakly similar to CGHU7L collage matrix metalloproteinase 17 (membrane-i	AB021225	Hs.159581	4.9	2145 2146 6398
	424876	Homo sapiens clone IMAGE:297403, mR	NA s Al0569		4.9	. 2016 6310
30	426075	ESTs, Weakly similar to 2109260A B cell	AW513691	Hs.270149	4.9	2170 6417
	413401	ESTs Human DNA sequence from clone CTA-9	A1361861 BAG1 A1 031	Hs.118659 186 He 28910	4.9 6.4.9	712 5332 1576 1577 5992
	421680 402233	NM_030760*:Homo sapiens endothelial of	iif	100 115.20310	4.9	4674
	414945	lymphocyte antigen 6 complex, locus E	BE076358	Hs.77667	4.9	894 5477
35	427254	ÉSTs	AL121523	Hs.97774	4.9	2312 6516
	432290	Homo sapiens cDNA FLJ 10237 fis, clone caspase recruitment domain protein 6	:H AKUU1U9: AW196663	Hs.274273 Hs.200242	4.9 4.9	2862 6926 4049 7935
	448888 451333	hypothetical protein FLJ10052	AK000914	Hs.26244	4.9	4226 4227 8082
40	447436	Homo sapiens cDNA: FLJ21449 fis, clon	e Al932971	Hs.18593	4.9	3928 7837
40	402507	Target Exon	NIM DOORE	9 Hs.1 79657	4.9 4.9	4683 2343 2344 6539
	427557 428411	plasminogen activator, urokinase recept ESTs	AW291464		4.9	2439 6617
	418216	AF15q14 protein	AA662240	Hs.283099	4.9	1206 5721
4.5	440952	ESTs	Al291804	Hs.118101	4.9	3490 7466
45	422684	H2A histone family, member Z	BE561617 N76101	Hs.119192 Hs.8127	4.9 4.9	1726 6105 3552 7524
	442173 451743	KIAA0144 gene product ESTs	AW074266		4.9	4251 8101
	438545	KIAA1151 protein	AB032977	Hs.6298	4.9	3329 3330 7319
ĖO	424242	hypothetical protein MGC13102	AA337476	Hs.347408	4.9 4.9	1921 6243 4416 4417 8239
50	453392 447270	SRY (sex determining region Y)-box 11 general transcription factor IIIC, poly	U23752 AC002551	Hs.32964 Hs.331	4.9	3910 3911 7824
	424765	hypothetical protein FLI14033 similar t	AA428211	Hs.371383	4.9	1998 6297
	403909	Autosomal Highly Conserved Protein		0 11 4 00050	4.9	4734
55	423464	CSR1 protein	NM_01624 AI752409	0 Hs.1 28856 Hs.109314		1809 1810 6165 3400 7383
33	439456 429612	hypothetical protein FLJ20980 pituitary tumor-transforming 1	AF062649	Hs.252587	4.8	2586 2587 6726
	452526	hypothetical protein MGC3040	W38537	Hs.280740		4336 8170
	411975	ESTs	Al916058	Hs.144583	4.8	564 5216 583 5232
60	412359 450812	gb:QV3-LT0048-140200-083-e05 LT004 MCF.2 cell line derived transforming se	AB002360	Hs.25515	4.8	4196 4197 8058
00	417534	myosin IE	NM_00499	8 Hs.8 2251	4.8	1131 1132 5660
	426400	Homo sapiens clone 25121 neuronal of	ac M78361	Hs.169743		2218 6452
	453874	collagen, type XIV, alpha 1 (undulin)	AW59178: AA443164		4.8 4.8	4456 8270 3093 7112
65	434924 421483	hypothetical protein FLJ13433 hypothetical protein MGC11333		38 Hs.1 04717		1545 1546 5973
05	418007	matrix metalloproteinase 1 (interstitia	M13509	Hs.83169	4.8	1177 1178 5697
	420261	fibroblast growth factor receptor 1 (fm	AW20609	3 Hs.748	4.8	1440 5897 4265 8112
-	451957	Homo sapiens cDNA FLJ13545 fis, clor hypothetical protein MGC10858	16 P A1796321 Al377431	D Hs.10299 Hs.141693	4.8 4.8	4279 8122
70	452055 444783	anillin (Drasophila Scraps homolog), ac			4.8	3722 3723 7672
	456346	ESTs	AW97499			4519 8323
	448140	BCM-like membrane protein precursor	AF146761	Hs.20450 Hs.2159	4.8 4.8	3980 3981 7882 2334 6532
	427474 418672	aggrecan 1 (chondroitin sulfate proteog ESTs	U13192 L44284	Hs.12915	4.8	1266 5763
75	418672 426064	Homer, neuronal immediate early gene	, 3 BE387014	Hs.166146	4.8	2168 6415
, =	418327	paired-like homeodomain transcription	f U70370	Hs.84136		1217 1218 5729
	429351	hypothetical protein FLJ1062B	AK001490 AF072813			2549 2550 6701 2783 6867
	431429 437623	reticulon 3 chromosome condensation-related SM			4.8	3275 3276 7269
80	409361	sine oculis homeobox (Drosophila) hon	nol NM_0059	82 Hs.5 4416	4.8	344 345 5049
	442572	hypothetical protein FLJ22415	AI001922			3569 7540 3003 7039
	433797	ESTs Homo sapiens cDNA: FLJ22165 fis, clo	AA60957	9 Hs.11272 14 Hs.24444		3003 7039 4208 8068
	451052 421535	phosphoribosylformylglycinamidine syr	ith AB00235	9 Hs.10547		1557 1558 5981
85	442619	ESTs, Weakly similar to AF164793 1 p	rot AA44749	2 Hs,20183	4.8	3575 7545
	428648	potassium voltage-galed channel, subf	am AF05272	B Hs.18802	1 4.7	2459 2460 6632

	400615	Target Exon			4.7	4634
	446497		AV658647	Hs.34226	4.7	3841 7766
	410422	Homo sapiens, clone MGC:15203, mRNA,		Hs.63348	4.7	462 5138
_	432842	****	AW674093	Hs.334822	4.7 4.7	2911 6966 3097 7116
5	435021		AA922192 AA010984	Hs.73962 Hs.159464	4.7	4190 8054
	450755 441266	Homo sapiens, clone IMAGE:3502329, mF		Hs.293845	4.7	3505 7480
	425573		AB006423	Hs.158308	4.7	2116 2117 6381
	415179	gb:HUM091D02B Human fetal brain (TFuji			4.7	916 5493
10	422033		AW245805	Hs.110903	4.7 4.7	1626 6031 3916 7828
	447343		AA256641 AB040907	Hs.236894 Hs.278436	4.7 4.7	2953 2954 6999
	43320 9 415115	KIAA1474 protein hypothetical protein	AA214228	Hs.127751	4.7	910 5489 -
	414577	hypothetical protein FLJ20992 similar t	AI056548	Hs.378938	4.7	832 5433
15	418156	nuclear receptor subfamily 1, group 1,	W17056	Hs.83623	4.7	1198 5715
	435149	KIAA1150 protein	AW401809	Hs.4779	4.7	3110 7128 1022 5578
	416680	brain abundant, membrane attached signa		Hs.79516 Hs.179769	4.7 4.7	. 3062 7088
	434577 459674	Homo sapiens cDNA: FLJ22487 fis, clone gb:zp53f03.r1 Stratagene NT2 neuronal p	AA180511	180.110100	4.7	4595 8392
20	405267	NM_007116*:			4.7	4775
	413031	phosphofructoldnase, muscle	BE515051	Hs.75160	4.7	671 5304
	450065	transcriptional co-activator with PDZ-b	AL050107	Hs.24341	4.7 4.7	4130 4131 8006 3519 7492
	441440	ESTs 13kDa differentiation-associated protei	Al807981 AF112208	Hs.30495 Hs.44163	4.7 4.7	3018 3019 7052
25	433935 447101	ESTs	N72185	Hs.44189	4.7	3890 7807
20	438089	nuclear receptor subfamily 1, group I,	W05391	Hs.351546	4.7	3301 7294
	440086	v-ral simian leukemia viral oncogene ho	NM_005402		4.7	3450 3451 7432
	43455B	ESTs	AW264102	Hs.39168	4.7 4.7	· 3061 7087 4206 8066
30	451032	Homo saplens mRNA; cDNA DKFZp564F gb:Homo saplens full length insert cDNA	7116 WU3092	Hs.323079	4.7	3408 7391
20	439579 434423	LIM domain only 4	NM_006769	Hs.3 844	4.7	3054 3055 7081
	409829	lymphocyte-specific protein 1	M33552	Hs.56729	4.7	389 390 5083
	439734	cAMP response element-binding protein (Hs.149	4.7	3426 7409
25	429305	myelin protein zero-like 1	AF095727	Hs.287832 Hs.345588	4.7 4.7	2542 2543 6695 187 4929
35	408049	desmoplakin (DPI, DPII) flap structure-specific endonuclease 1	AW076098 AC004770	Hs.4756	4.6	3104 3105 7123
	435099 422110	secreted protein, acidic, cysteine-rich	Al376736	Hs.121555	4.6	1648 6045
	433556	calcium/calmodulin-dependent protein ki	W56321	Hs.111460	4.6	2987 7026
40	435937	ESTs	AA830893	Hs.119769	4.6	3164 7172
40	445936	hypothetical protein FLJ22329	BE543594	Hs.367653 Hs.76989	4.6 4.6	3806 7736 - 854 5449
	414706 441834	KIAA0097 gene product KIAA0736 gene product	AW340125 AL138034	Hs.7979	4.6	3539 7511
	445745	KIAA0455 gene product	AB007924	Hs.13245	4.6	3796 3797 7727
	433028	AD-017 protein	Al199144	Hs.283737	4.6	2928 6980
45	428283	Homo sapiens mRNA; cDNA DKFZp564l		096 Hs.32307	79 4.6	2420 6602 3820 7748
	446142	ESTs	A1754693 A179996B	Hs.145968 Hs.199630	4.6 4.6	3941 7848
	447598 402812	ESTs NM_004930*:Homo sapiens capping pro		. 10.10000	4.6	4693
	406672	major histocompatibility complex, class	M26041	Hs.198253	4.6	43 44 4820
50	441859	interleukin-4 induced gene-1 protein (F	AW194364	Hs.380444	4.6	3540 7512
	437188	KIAA1814 protein	AL080221	Hs.375566 Hs.149846	4.6 4.6	3240 7238 998 5561
	416389 424503	integrin, beta 5 Integrin, alpha 5 (fibronectin receptor	AA180072 NM 002205	Hs.1 49609	4.6	1965 1966 6275
	452242	gycosyltransferase	R50956	Hs.159993	4.6	4305 8145
55	453280	Homo saniers mRNA: cDNA DKFZo761	C082 (f AL15)	7476 Hs.3291	3 4.6	4410 8233
	421631	Homo saplens mRNA; cDNA DKFZp434	D0720 (AL13	7551 Hs.106	254 4.6	1571 5989
	453884	KIAA0186 gene product	AA355925 AW937420	Hs.36232 Hs.351869	4.6 4.6	4460 8274 4588 8067
	451050 428645	ESTs ESTs, Wealthy similar to 2017205A dihyo		Hs.98729	4.6	2458 6631
60	419983	Homo saplens mRNA; cDNA DKFZp586	E1624 W559!		4.6	1401 5867
- •	408503	ESTs. Weakly similar to T12552 hypothe	el AW119059	Hs.348603	4.6	233 4964
-	410600	ESTs, Moderately similar to S65657 alph	n AW5/5/42 U90441	Hs.351676 Hs.3622	4.6 4.6	479 5147 3012 3013 7047
	433882 416914	procollagen-proline, 2-oxoglutarate 4-d brain and reproductive organ-expressed		Hs.80426	4.6	1045 5595
65	438411	gb:ys81c10.r1 Soares retina N2b4HR H		Hs.169370		3321 7311
•	425082	Inositol 1.4.5-triphosphate receptor, t	N44238	Hs.102991		2048 6333
	445930	Homo sapiens clone 24747 mRNA sequ	ence AF0550	009 Hs.13456	4.6	3804 7734
	402794	Target Exon	AW015318	Hs.143509	4.6 4.6	4691 219 4953
70	408393 425274	ESTs minichromosome maintenance deficient				2079 6356
70	427933	ESTs	AW974643	Hs.190571	4.6	2386 6573
	437664	ESTs, Moderately similar to ALU1_HUM	1AN AW9777	14 Hs.38066	7 4.6	3277 7270
	402888	Target Exon	1100000		4.6 4.6	4698 3381 7364
75	439195	gb:yw28d08.s1 Morton Fetal Cochlea H fibronectin leucine rich transmembrane	AL120071	Hs.48998	4.6	276 4999
15	408920 439593	ESTs	BE073597	Hs.124863		3410 7393
	446659	ESTs	AJ335361	Hs.226376	3 4.6	3865 7786
	428513	plexin C1	BE220806	Hs.184697		2451 6625
90	429047	ciliary neurotrophic factor receptor ESTs, Weakly similar to ALU1_HUMAN	NM_00184	2 Hs.1 94774	4.6 3 4.5	2507 2508 6668 1523 5959
80	421292 453828	ESTs, Weakly Similar to ALUT_HUMAN	AW970960			4444 8262
	453828 407112	ESTs, Weakly similar to ALU7_HUMAN	ALU AA0708	301 Hs.51615	4.5	111 4863
	439737	Homo sapiens mRNA full length insert of	D AI751438	Hs.41271	4.5	3427 7410
0.5	403857	Target Exon	1001.01.	U- 04550	4.5	4730
85	448595	KIAA0644 gene product DKFZP564D0764 protein	AB014544 AA374181		4.5 4.5	4015 4016 7910 4244 8096
	451678	Mid Et gotton or braggi				

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	400440					
	430410	tryptase beta 1	AF099144	Hs.347933	4.5	2689 2690 6799
	400289		X07820	Hs.2258	4.5	3 4 4615
	417640	protein C receptor, endothelial (EPCR)	D30857	Hs.82353	4.5	1143 5669
_	429903	cyclin-dependent kinase 5, regulatory s	AL134197	Hs.93597	4.5	2616 6746
5	452110	Homo sapiens cDNA FLJ11309 fls, clone		Hs.28005	4.5	4290 8132
	445133	ESTs	AW157646	Hs.198689	4.5	3745 7690
	448202	Rho guanine nucleolide exchange factor	AB002292	Hs.20695	4.5	3986 3987 7886
	436808	ESTs	AA731602	Hs.120266	4.5 .	3217 7218
10	406646	major histocompatibility complex, class	M33600	Hs.375570	4.5	36 37 4816
10	440087	hypothetical protetn FLJ22678	W28969	Hs.7718	4.5	3452 7433
	442577	ESTs	AA292998	Hs.163900	4.5	3571 7542
	436962	DKFZP564I052 protein	AW377314	Hs.5364	4.5	3229 7228
	424265	hairy/enhancer-of-split related with YR	AF173901	Hs.144287	4.5	1927 1928 6247
15	451399	ESTs	AL042110	Hs.10432	4.5	4228 8083
15	430209	collagen, type V, alpha 3	AF177941	Hs.235368	4.5	2659 2660 6778
	418526	solute carrier family 16 (monocarboxyli	BE019020	Hs.85838	4.5	1251 5752
	425074	Homo saplens cDNA: FLJ22165 fis, clone		Hs.351869	4.5	2045 6331
	435575	triggering receptor expressed on myeloi	AF213457	Hs.44234	4.5	3139 3140 7152
20	402408	NM_030920*:Homo saplens hypothetical			4.5	4681
20	424308	minichromosome maintenance deficient (Hs.154443	4.5	1932 6250
	428926	brain-specific angiogenesis inhibitor 1	NM_001702		4.5	2487 2488 6653
	410059	a disintegrin-like and metalloprotease	NM_007038		4.5	416 417 5103
	425272	ESTs, Weakly similar to C35826 hypothet		Hs.47209	4.5	2078 6355
25	448786	Homo saplens cDNA FLJ11881 fis, clone		Hs.179075	4.5	4040 7929
2,5	424909	cell division cycle 25B	S78187	Hs.153752	4.5	2024 2025 6316
	448438 433180	Homo sapiens cDNA FLJ11640 fis, clone		Hs.24654	4.5	4005 7902
	437470	K562 cell-derived leucine-zipper-like p	AB038651	Hs.31854	4.5	2949 2950 6997
	443164	hypothetical protein DKFZp547D065	AL390147	Hs.134742	4.5	3267 3268 7262
30	450254	ESTs, Weakly similar to ALU1_HUMAN A			4.5	3606 7573
50	417160	neuropeptide G protein-coupled receptor proteolipid protein 1 (Pelizaeus-Merzba	N76497	Hs.355807	4.5 4.5	4147 4148 8018
	428977	cyclin B2	AK001404	Hs.194698	4.5	1086 5626 2496 6659
	436895	carbonic anhydrase XII	AF037335	Hs.5338	4.5	3224 3225 7224
	429163	gb:am20a10.s1 Soares_NFL_T_GBC_S1			4.5	2521 6678
35	440516	cadherin 2, type 1, N-cadherin (neurona	S42303	Hs.161	4.5	3472 3473 7451
	422737	collagen, type III, alpha 1 (Ehlers-Dan	M26939	Hs.119571	4.5	1730 1731 6108
	446388	NPD007 protein	AA292979	Hs.7788	4.5	3837 7763
	412896	major histocompatibility complex, class	AW804157	Hs.375570	4.5	653 5288
	451938	down-regulator of transcription 1, TBP-	Al354355	Hs.16697	4.5	4263 8110
40	411962	gb:zk85d12.r1 Soares_pregnant_uterus_l			4.5	563 5215
	426618	smg GDS-ASSOCIATED PROTEIN		Hs.171374	4.5	2259 6477
	421389	Homo sapiens cDNA FLJ12777 fis, clone		Hs.101064	4.5	1537 5968
	407721	dual-specificity tyrosine-(Y)-phosphory	Y12735	Hs.38018	4.5	153 154 4898
15	424330	Homo sapiens cDNA FLJ13596 fis, clone	P AW073953	Hs.34054	4.5	1936 6253
45	438855	Homo sapiens mRNA; cDNA DKFZp586J		276 Hs.6441	4.5	3359 7343
	437446	ESTs, Moderately similar to CA1C RAT C		Hs.101302	4.5	3264 7259
	445424	cortactin SH3 domain-binding protein	AB028945	Hs.12696	4.5	3767 3768 7706
	433859	ESTs	AW896758	Hs.273789	4.5	3010 7045
50	417512	glycoprotein (transmembrane) nmb	X76534	Hs.82226	4.5	1127 1128 5658
50	436159	ESTs	AI056637	Hs.369849	4.5	3172 7178
	404913 428269	NM_024408*:Homo sapiens Notch (Drosc		LIA OFCEO	4.5	4763
	431674	ESTs, Moderately similar to ZN91_HUMA G-protein coupled receptor		Hs.95659	4.5	2416 6598
	446219	ESTs	AA098901 Al287344	Hs.301642	4.5	2809 6885
55	434175	ESTs	AW979081	Hs.369078 Hs.165469	4.4 4.4	3826 7754 3032 7065
00	419733	Homo sapiens cDNA FLJ14415 fis, clone			4.4	
	423872	uronyl 2-sulfotransferase	AB020316	Hs.134015	4.4	1378 5849
	424874	Homo sapiens cDNA FLJ20812 fis, clone	A A A 3 A 7 Q 5 1	Hs.326413	4.4 4.4	1859 1860 6202 2015 6309
	451460	ESTs	Al797550	Hs.209652	4.4	4232 8087
60	411573	KIAA1077 protein	AB029000	Hs.70823	4.4	542 543 5199
	446673	LPAP for lysophosphalidic acid phosphat			4.4	3866 3867 7787
	450835	hypothetical protein FLJ10767	BE262773	Hs.25584	4.4	4199 8060
	450087	MUM2 protein	BE293180	Hs.24379	4.4	4133 8008
	446522	putative receptor protein	NM_003876		4.4	3850 3851 7773
65	409799	phosphoserine phosphatase-like	D11928	Hs.76845	4.4	387 5081
	416737	LIM domain protein	AF154335	Hs.79691	4.4	1028 1029 5582
	422949	gb:EST21657 Adrenal gland tumor Homo	sa AA319435	Hs.283435	4.4	1761 6129
	443114	ESTs	A1033377	Hs.368631	4.4	3602 7569
70	458629	Homo sapiens cDNA FLJ13565 fis, clone		Hs.25094	4.4	4577 8374
70	436396	wingless-type MMTV integration site fam		Hs.152213	4.4	3184 7189
	415906	Homo sapians cDNA: FLJ22256 fis, clone		Hs.288741	4.4	956 5526
	414931	. Homo sapiens mRNA; cDNA DKFZp761N				891 892 5475
	418836	ESTs	Al655499	Hs.161712	4.4	1276 5771
75	413278 400292	interferon-stimulated protein, 15 kDa	BE563085	Hs.833	4.4	695 5322
13		NAME OMITTED receptor kinase	AA250737	Hs.72472	4.4	5 4616
	425139 423332	protease, serine, 23	AW630488	Hs.25338	4.4	2054 6338
	423332 443105	sorting nextn 7 chondroilin sulfate proteoglycan 4 (mel	A1091466	Hs.127241	4.4	1795 6155
	443103	ubiquitin-conjugating enzyme E2E 1 (hom	X96753	Hs.9004	4.4	3600 3601 7568
80	424834	Homo sapiens cDNA FLJ10570 fis, clone		Hs.7766 Hs.153408	4.4 4.4	3508 7483 2009 6304
	422573	Integrin, alpha V (vitronectin recepto	AW297985	Hs.295726	4.4	1704 6088
	447200	Homo sapiens cDNA FLJ14028 fis, clone		Hs.281434	4.4	3899 7815
	438540	low density lipoprotein receptor-relate	AB017498	Hs.6347	4.4	3343 3344 7329
0.5	454024	hypothetical protein FLJ23403	AA993527	Hs.293907	4.4	4481 8290
85	456940	ESTs	H46986	Hs.31861	4.4	4534 8336
	409124	N-acetylglucosaminidase, alpha- (Sanfil	AW292809	Hs.50727	4.4	307 5023

	120271	CCT-	A104000C	LI- EEOOD		2242 7204
	438274 417819	ESTs ESTs	AI918906	Hs.55080 Hs.133540	4.4 4.4	3313 7304 1160 5683
	413020	gb:yr31h09.r1 Soares fetal liver spleen	Al253112 R98736	FIS. 1500-10	4.4	670 5303
_	419086	Kallmann syndrome 1 sequence	NM_000216	Hs.8 9591	4.4	1300 1301 5789
5	433075	sortifin 1	NM_002959		4.4	2936 2937 6987
	452461	transcription factor	N78223	Hs.108106	4.4	4333 8167
	445547	galactosylceramidase (Krabbe disease)	D86181	Hs.273	4.3	3782 3783 7717
	444838	ESTs	AV651680	Hs.208558	4.3	3728 7675
10	414416	hypothetical protein MGC2721	AW409985	Hs.76084	4.3	813 5417
10	408449 425289	dynamin 1 interferon, gamma-inducible protein 16	NM_004408 AW139342	Hs.155530	4.3 4.3	224 225 4958 2082 6358
	426265	ESTs	AA421069	Hs.97896	4.3	2189 6432
	450222	TATA box binding protein (TBP)-associat			4.3	4143 4144 8016
	450385	synuclein, alpha interacting protein (s	Al631024	Hs.24948	4.3	4162 8030
15	416498	potassium channel, subfamily K, member				1007 1008 5568
	410268	six transmembrane epithelial antigen of	AA316181	Hs.61635	4.3	441 5120
	438913	ESTS	AI380429	Hs.172445	4.3	3364 7347
	410055 430547	gene for serine/threonine protein kinas diacylglycerol kinase, iota	AJ250839 NM_004717	Hs.58241 Hs 2 42947	4.3 4.3	414 415 5102 2707 2708 6811
20	430030	lectin, galactoside-binding, soluble, 1	BE300094	Hs.227751	4.3	2641 6764
	406627	ESTs	T64904	Hs.163780	4.3	30 4812
	450001	solute carrier family 6 (neurotransmitt	NM_001044	Hs.4 06	4.3	4127 4128 8004
	427578	ESTs, Highly similar to TUL3_HUMAN TU			4.3	2347 6541
25	417791	ESTS	AW965339	Hs.44269	4.3	1158 5681
23	426250 409893	Homo sapiens cDNA FLJ11752 fis, clone minichromosome maintenance deficient (Hs.183702 Hs.57101	4.3 4.3	2188 6431 397 5088
	403908	Autosomal Highly Conserved Protein	3 ATTZ41 U3U	ns.3/ 101	4.3 4.3	4733
	426316	meningioma (disrupted in balanced trans	NM 002430	Hs.2 68515	4.3	2203 2204 6441
	439402	ESTs	W02753	Hs.103002	4.3	3395 7378
30	410275	transcription factor AP-2 gamma (activa	U85658	Hs.61796	4.3	445 446 5123
	421802	Homo saplens, Similar to CGI-78 protein	BE261458	Hs.108408	4.3	1595 6007
	426365	RNA binding molif protein 8B	AA376667	Hs.380056	4.3	2212 6447
	426207 433036	HSPC182 protein ESTs	BE390657 AA574091	Hs.30026 Hs.105964	4.3 4.3	2186 6429 2929 6981
35	416640	neuron-specific protein	BE262478	Hs.13406	4.3	1019 5576
-	412723	hypothetical protein AF301222	AA648459	Hs.335951	4.3	634 5271
	446548	ESTs	AI769392	Hs.200215	4.3	3856 7777
	422526	ESTs	AA311763	Hs.131056	4.3	1695 6081
40	422656	LIM homeobox protein 2	AI870435	Hs.1569	4.3	1722 6101
40	452223	hypothetical protein MGC2827	AA425467	Hs.8035	4.3	4302 8142
	433800 408447	lung type-I cell membrane-associated gt Homo sapiens cDNA FLJ11227 fis, clone	A1034361	Hs.135150 Hs.45080	4.3 4.3	3004 7040 223 4957
•	411408	calcium channel, voltage-dependent, L t		Hs.69949	4.3	534 535 5192
	416072	growth associated protein 43	AL110370	Hs.79000	4.3	969 5537
45	425580	galanin	L11144	Hs.1907	4.3	2118 2119 6382
	443907	TYRO protein tyrosine klnase binding pr	AU076484	Hs.9963	4.3	3656 7617
	424084	hypothetical protein FLJ23056	Al940675	Hs.20914	4.3	1895 6226
	422828 435523	prion protein 2 (dublet)	AL133396	Hs.348821	4.3	1744 1745 6117
50	409956	membrane-spanning 4-domains, subfami inhibin, beta A (activin A, activin AB	AW103364	Hs.11090 Hs.727	4.3 4.3	3131 7147 400 5091
	432787	HSPC054 protein	NM_014152		4.3	2905 2906 6962
	422168	S100 calcium-binding protein A7 (psoria	AA586894	Hs.112408	4.3	1654 6050
	439165	KCNQ1 overlapping transcript 1	AA029517	Hs.95162	4.3	3379 7362
55	406431	NM_024867*:Homo sapiens hypothetical			4.3	4806
33	422609 435256	sialidase 1 (lysosomal sialidase) cytokine-like protein C17	Z46023	Hs.118721	4.3 4.3	1711 6093
	435520	HNOEL-iso protein	AF193766 AA297990	Hs.13872 Hs.9315	4.3 4.3	3116 3117 7133 3130 7146
	453876	ESTs, Weakly similar to 138022 hypothet		Hs.110406	4.3	4457 8271
	451752	KIAA1171 protein	AB032997	Hs.353087	4.3	4252 4253 8102
60	410188	hypothetical protein DKFZp586H0623	AL096739	Hs.107260	4.3	429 430 5113
	416283	vascular endothelial growth factor C	NM_005429		4.3	985 986 5551
	416065 408331	proliferating cell nuclear antigen dual specificity phosphatase 12	BE267931 NM_007240	Hs.78996	4.3 4.3	968 5536 211 212 4948
	438337	hypothetical protein FLJ11196	AK002058	Hs.6166	4.3	3317 3318 7308
65	429687	nucleoporin 153kD	Al675749	Hs.211608	4.3	2605 6737
	453085	KIAA0251 protein	AW954243	Hs.351573	4.3	4390 8216
	411943	ESTs, Weakly similar to S44608 C02F5.6		Hs.7962	4.3	562 5214
	430299	serine carboxypeptidase 1 precursor pro		Hs.106747	4.3	2678 6792
70	435461 423032	ESTs RAS p21 protein activator (GTPase activ	A1075846	Hs.133996	4.3	3127 7143
70	423032	NCK adaptor protein 2	AW404994	Hs.119274 Hs.101695	4.3 4.3	1771 6137 1504 5943
	412652	ESTs	AI801777	Hs.352554	4.3	626 5264
	418102	hypothetical protein MGC15880	R58958	Hs.26608	4.3	1192 5709
75	422938	centromere protein A (17kD)	NM_001809		4.3	1759 1760 6128
75	428305	cartilage linking protein 1	AA446628	Hs.2799	4.3	2426 `6607
	432241 433969	KIAA1151 protein	A1937060	Hs.6298	4.3	2858 6922
	433969 441224	ESTs, Wealty similar to PC4395 mucin 3 calumenin	AW207279 AU076964	Hs.271786 Hs.7753	4.3 4.3	3020 7053 3504 7479
	435472	triggering receptor expressed on myelol	AW972330	Hs.283022	4.3	3129 7145
80	413672	gb:QV0-HT0368-310100-091-h10 HT036				737 5353
	410552	fibroblast growth factor receptor 1 (fm	X66945	Hs.748	4.3	474 475 5144
	448775	nudix (nucleoside diphosphate linked mo		Hs.388	4.3	4036 4037 7927
	435837 452698	Homo sapiens cDNA FLJ11431 fis, clone chemokine (C-C motif) recentor 1	H AI689210 NM_001295	Hs.187276	4.2	3156 7165
85	452698 431825	chemokine (C-C motif) receptor 1 ESTs	Al983564	Hs.292917	4.2 4.2	4343 4344 8177 2826 6899
	409021	fatty acid binding protein 3, muscle an	AA156640	Hs.49881	4.2	295 5014
		- •				-

	450000	****	NI 000044	11-0 0000	40	A402 A402 D776
	453905	LIM domain kinase 1	NM_002314		4.2	4462 4463 8276
	450414	KIAA1716 protein	AI907735	Hs.21446	4.2	4165 8033
	440105	Homo sapiens clone 23809 mRNA sequer			4.2	3455 7435
_	435142	ESTs	A1051967	Hs.110122	4.2	3109 7127
5	446006	deafness, autosomal dominant 5	NM_004403		4.2	3808 3809 7738
	447674	cyclin-dependent kinase 2	BE270640	Hs.19192	4.2	3947 7854
	413821	ESTs, Wealdy similar to C4HU compleme		HS.55904	4.2	746 5361
	453910	Kruppel-like zinc finger protein GUS2	AL133794	Hs.16313	4.2	4464 8277
10	416137	ubiquitin activating enzyme E1-like pro	BE279513	Hs.278607	4.2	977 5544 112 4864
10	407116	ESTs	AA130986	Hs.271627	4.2	
	417387	ESTs	AW021102	Hs.21509	4.2	1108 5646
	412719	ESTs	AW016610	Hs.816	4.2	633 5270
	444001	ESTs, Moderately similar to S65657 alph	Alugous/	Hs.152299	4.2	3667 7626
1.5	443351	Homo sapiens cDNA FLJ13471 fis, clone		115.30799	4.2 4.2	3617 7583 2855 6920
15	432235	ESTs	AA531129	Hs.190297	4.2	2629 6757
	429978	ribosomal protein S6	AA249027	Hs.353161	4.2	4656
	401621	NM_025193:Homo sapiens 3 beta-hydrox		Hs.268723	4.2	922 5498
	415321	ESTs, Weakly similar to A47582 B-cell g	AJ418027	Hs.120361	4.2	3189 7194
20	436449 416860	ESTs actin filament associated protein	D25248	Hs.80306	4.2	1043 5593
20	411089	cell division cycle 2-like 1 (PITSLRE p	AA456454	Hs.214291	4.2	513 5173
	403903	C5001632*:gi] 10645308 gb AAG21430.1		110.211.201	4.2	4731
	420834	ESTs	AA837124	Hs.88780	4.2	1484 5928
	453754	ESTs	AW972580	Hs.172753	4.2	4438 8257
25	431350	ESTs	Al192528	Hs.164537	4.2	2775 6860
20	452056	Homo sapiens, clone IMAGE:4054156, m	RNA AW955	065 Hs.101150	4.2	4280 8123
	412014	ESTs, Weakly similar to A46010 X-linked	A1620650	Hs.43761	4.2	566 5218
	438867	oplate receptor-like 1	AW451157	Hs.2859	4.2	3362 7345
	448684	hypothetical protein FLJ13390 similar t	AA923142	Hs.24884	4.2	4026 7918
30	450066	ESTs, Weakly similar to 138022 hypothet	H56499	Hs.252692	4.2	4132 8007
-	407792	putative secreted ligand homologous to	A1077715	Hs.39384	4.2	162 4906
	448103	hypothetical protein FLJ11362	AA968672	Hs.8929	4.2	3976 7878
	414152	thrombospondin 4		3 Hs.7 5774	4.2	782 783 5391
	422766	heparan sulfate (glucosamine) 3-0-sulfo	AA334108	Hs.159572	4.2	1735 6111
35	414178	ESTs, Weakly similar to I38022 hypothet		Hs.46791	4.2	788 5396
	426890	ESTs	AA393167	Hs.41294	4.2	2283 6494
	421814	thrombospondin 2	L12350	Hs.108623	4.2	1596 1597 6008
	435906	SAR1 protein	A1686379	Hs.110796	4.2	3161 7169
40	438461	phosphoserine aminotransferase	AW075485	Hs.286049	4.2	3326 7316
40	439706	ESTs, Weakly similar to DAP1_HUMAN	DEA1 AW8/2	2527 HS.59701	4.2	3421 7404
	418117	linker for activation of T cells	Al922013	Hs.83496	4.2 4.2	1195 5712 3433 7416
	439815	hypothetical protein FLJ20420	AA206079 N34901	Hs.6693 Hs.348603	4.2	1324 5808
-	419271	ESTs ESTs	AI809278	Hs.208152	4.2	4248 8099
45	451691 420900	ESTs	AL045633	Hs.44269	4.2	1490 5933
45		ESTs	R71264	Hs.16798	4.2	3474 7452
	440524 431988	protein kinase C, beta 1	AC002302	Hs.349845	4.2	2837 6906
	412580	similar to CABLES [Homo sapiens]	AA113262	Hs.17901	4.2	610 5253
	457313	transcriptional coactivator	AF047002	Hs.241520	4.2	4544 4545 8345
50	416361	ESTs, Weakly similar to CA13_HUMAN			4.2	995 5558
-	425077	synovial sarcoma translocation gene on	AB014593	Hs.154429	4.2	2046 2047 6332
	413945	CD14 antigen	NM_00059	1 Hs.7 5627	4.2	758 759 5371
	427790	hypothetical protein MGC8641	NM_00288	7 Hs.1 80832	4.2	2369 2370 6560
	453931	ESTs	AL121278	, Hs.25144	4.2	4469 8280
55	431410	ESTs	AW299534		4.2	2781 6865
	410512	hypothetical protein MGC3180	AA085603	Hs.250570	4.2	468 5140
	447726	matrilin 2	AL137638		4.1	3953 3954 7859
	434826	pyruvate dehydrogenase phosphatase	AF155661	Hs.22265	4.1	3078 3079 7101
C O	402685	Target Exon		. 11 000010	4.1	4687
60	440028	ESTs, Weakly similar to T17227 hypothe			4.1	3446 7428
	428418	ESTs	A1368826	Hs.8768	4.1	2441 6619
	416404	ESTs	AA180138		4.1 4.1	1000 5563 3112 7130
	435181	KIAA1571 protein	AA669339	Hs.28838 Hs.131149	4.1	3584 7552
65	442767	ESTs minichromosome maintenance deficient	Al017208		4.1	2341 6537
05	427528		H68741	Hs.38774	4.1	4518 8322
	456327 437763	ESTs tissue inhibitor of metalloproteinase 1	AA469369		4.1	3285 7278
	458823	ESTs	AW207574		4.1	4581 8378
	458997	ESTs ·	AW937420		4.1	4588 8384
70	444207	cathepsin D (lysosomal asparty) proteas		Hs.374415	4.1	3686 7643
. •	415812	TATA box binding protein (TBP)-associa			4.1	949 5521
	416823	ESTs	N68454	Hs.16222	4.1	1037 5588
	414907	polo (Drosophia)-like kinase	X90725	Hs.77597	4.1	886 887 5472
	438454	ESTs	Al377324	Hs.136888	4.1	3324 7314
75	432435	ESTs	BE218886		4.1	2874 6936
	428344	Homo sapiens cDNA FLJ12425 fis, clor			4.1	2433 6612
	432106	ESTs, Weakly similar to RETROVIRUS				2842 6910
	408705	HSPCO34 protein	AA312135		4.1	250 4980
80	409702	eukaryotic translation elongation facto	A)752244			380 5075 645 646 5282
οU	412802	aquaporin 1 (channel-forming integral p		Hs.74602	4.1	3028 7061
	434095	milk fat globule-EGF factor 8 protein (AA011117		4.1	1443 5900
	420303	KIAA1474 protein Homo sapiens, clone MGC:3182, mRN.	AA258282			2065 2066 6346
•	425207 448569	signal transducer and activator of tran	4, com ABU14 BE382657		4.1	4014 7909
85	431882	engrailed homolog 1		7 5.21400 26 Hs.2 71977	4.1	2832 2833 6903
Ų,	437673	ESTs	AW66566			3279 7272
	.5,5,6	J				

	405203	NM_002086*:Homo sapiens growth facto			4.1	4772
	428825	ESTs, Weakly similar to 138022 hypothet		Hs.128783	4.1	2478 6646
	425966 439496	Cyclin F	NM_001761	Hs.1 973	4.1	2158 2159 6409
5	443715	Homo sapiens, Similar to RIKEN cDNA 1 cyclin E1	11 BE616501		4.1	3402 7385 .
•	417426	laminin, beta 1	AI583187	Hs.9700	4.1	3638 7601
	416292	nasopharyngeal carcinoma susceptibility	NM_002291	Hs.42390	4.1 4.1	1119 1120 5654
	415107	gb:HUM089A11B Clontech human fetal b	ral D60154	113.42030	4.1	987 5552 909 5488
	443950	epithelial membrane protein 3	NM_001425	Hs.9 999	4.1	3660 3661 7621
10	426413	gb:EST90805 Synovial sarcoma Homo sa			4.1	2219 6453
	418514	TOLLIP protein	AW068487	Hs.25413	4.1	1248 5749
	414110	gb:601112444F1 NIH_MGC_16 Homo sa	plens BE251	752	4.1	776 5385
	444024	ESTs	AW205686	Hs.348603	4.1	3671 7630
15	457396	DKFZP547E1010 protein	Z20964	Hs.323817	4.1	4546 8346
13	408932 458806	TP53TG3 protein	AW594172	Hs.278513	4.1	277 5000
		Homo sapiens PNAS-13 mRNA, complete				4580 8377
	447898 412530	6.2 kd protein hypothetical protein FLJ13346	AW969638	Hs.380920	4.1	3966 7868
	439452	B-cell CLL/lymphoma 11B (zinc finger pr	AA766268 AA918317	Hs.266273 Hs.57987	4.1 4.1	600 5246
20	442328	ESTs, Weakly similar to ALU4_HUMAN A			4.1	3398 7381 3556 7528
	425133	3-phosphoinositide dependent protein ki			4.1	2052 2053 6337
	432539	karyopherin beta 2b, transportin	AL138169	Hs.278378	4.1	2885 6946
	433446	ESTs	AW469546	Hs.122116	4.1	2979 7020
0.5	449611	ESTs	Al970394	Hs.197075	4.1	4100 7981
25	425354	complement component 3a receptor 1	U62027	Hs.155935	4.1	2093 2094 6365
	439453	thyroid hormone receptor interactor 13	BE264974	Hs.6566	4.1	3399 7382
	422320	ESTs, Weakly similar to AAB47496 NG5		Hs.23650	4.1	1671 6063
	449475	hypothetical protein PP1057	Al348027	Hs.129826	4.1	4091 7973
30	413950 430071	ESTs NB B	AA249096	Hs.32793	4.1	760 5372
50	453708	transcription factor 8 (represses inter ESTs	AA355986 Al191811	Hs.380991	4.1	2648 6770
	400263	Eos Control	MISIGII	Hs.54629 Hs.75309	4.1 4.1	4435 8254
	443402	elastin (supravalvular aortic stenosis,	U77846	Hs.9295	4.1	4613 3619 3620 7585
	407065	gb:H.sapiens DAT1 gene, partial, VNTR.		110.02.00	4.1	103 104 4857
35	404063	Target Exon			4.1	4737
	433932	neuronal protein	AW954599	Hs.169330	4.1	3017 7051
	419081	ESTs	Al798863	Hs.87191	4.1	1299 5788
	447072	tyrosylprotein sulfotransferase 1	D61594	Hs.17279	4.1	3887 7804
40	445413	CGI-147 protein	AA151342	Hs.12677	4.1	3765 7704
40	439727	Homo sapiens clone 23645 mRNA seque		Hs.6651	4.1	3424 7407
	432222	gb:an03c03.x1 Stratagene schizo brain S	Al204995		4.1	4596 6919
	408915 417687	heptacellular carcinoma novel gene-3 pr ESTs			4.1	274 275 4998
	453271	ESTS		.Hs.250691	4.1	1147 5672
45	443595	PPAR(gamma) anglopoletin related protein	AA903424	Hs.6786 Hs.9613	4.1 4.1	4409 8232 2626 2627 7600
	413658	A kinase (PRKA) anchor protein 10	AA055369	Hs.372446	4.1	3626 3627 7590 734 5351
	401176	Target Exon	, , , , , , , , , , , , , , , , , , , ,	113,072,770	4.1	4646
	428976	ras homolog gene family, member I	AL037824	Hs.194695	4.1	2495 6658
	441831	PR domain containing 16	AA992586	Hs.302022	4.1	3538 7510
50	414280	zyxin	BE410769	Hs.75873	4.1	796 5403
	404632	NM_022490:Homo sapiens hypothetical p	IO		4.1	4754
	449263	NICE-5 protein	BE560779	Hs.337078	4.0	4076 7958
	407688	Human D9 splice variant B mRNA, compli		Hs.37616	4.0	149 4894
55	408513 437980	ESTs KIAA1474 protein	AW206468	Hs.103118	4.0	234 4965
-	412326	small inducible cytokine A3 (homologous	R50393	Hs.278436 Hs.73817	4.0	3295 7288 582 5231
	410577	glioma pathogenesis-related protein	X91911	Hs.64639	4.0 4.0	476 477 5145
	428206	KIAA0836 protein	AB020643	Hs.183006	4.0	2405 2406 6590
	448743	KIAA1136 protein	AB032962	Hs.21896	4.0	4032 4033 7924
60	416062	Homo sapiens cDNA FLJ14609 fis, clone	N AA724811	Hs.334791	4.0	967 5535
	445252	Homo sapiens clone 23927 mRNA seque	nce AF052109	3 Hs.12473	4.0	3752 7695
	428579	G protein-coupled receptor 64	NM_005756		4.0	2454 2455 6628
	433221	KIAA1484 protein	AB040917	Hs.97860	4.0	2958 2959 7003
65	427584 441648	v-myb avian myeloblastosis viral oncoge ESTs		Hs.179718	4.0	2348 6542
03	407907	procollagen-lysine, 2-oxoglutarate 5-di	H05734 Al752235	Hs.30559	4.0	3531 7503
	414175	hypothetical protein DKFZp761D112	Al308876	Hs.41270 Hs.103849	4.0 4.0	179 4921
	419326	ESTs	W94915	Hs.42419	4.0	786 5394 1329 5812
	459247	ESTs, Highly similar to T42626 secreted	N46243	Hs.110373	4.0	4590 8386
70	438685	ESTs	AAB14034	Hs.146065	4.0	3347 7332
	440080	ESTs	AW051597	Hs.143707	4.0	3449 7431
	419222	spermine synthase	AD001528	Hs.89718	4.0	1318 1319 5803
	426340	FYN oncogene related to SRC, FGR, YES		Hs.169370	4.0	2208 6444
75	424365	ESTs, Moderately similar to 154374 gene		Hs.128665	4.0	1938 6255
15	428412	ESTS	AA428240	Hs.126083	4.0	2440 6618
	407566 419574	Homo saplens cDNA FLJ12280 fis, clone hypothetical protein			4.0	142 4888
	445893	ESTs, Weakly similar to TRHY_HUMAN T	AK001989 RIC AI610702	Hs.91165	4.0 4.0	1353 1354 5830
. .	423811	homeo box C4			4.0 4.0	3802 7732 1854 6198
80	447818	Homo saplens clone 24670 mRNA sequer			4.0 4.0	3965 7867
	400231	Eos Control			4.0	4603
	451598	ESTs	N29102	Hs.79658	4.0	4241 8093
	408482	adenosine A2b receptor	NM_000676	Hs.4 5743	4.0	226 227 4959
85	425741	Homo sapiens clone 24628 mRNA sequer	nce AF052152	Hs.129997	4.0	2133 6391
S)	446254	Homo sapiens cDNA FLJ12832 fis, clone			4.0	3830 7757
	442410	ESTs	AW996503	Hs.197680	4.0	3559 7531

PCT/US2003/038193

	408433 445809 409698	ras-related C phosphoribos short stature	3 botulinum toxin substra yl pyrophosphate synthe homeobox 2	at AW162931 stase AA295298 AF022654	Hs.13339	4.0 4.0 4.0	221 4955 3799 7729 378 379 5074	
5	TABLE 98: Pkey:	Uniqu	e Eos probeset identifier	number				
	CAT number: Accession:		cluster number ank accession numbers					
10	Ph	CAT Number	Annaeclan					
1.5	Pkey 459702 458956 415179	539529_1 81880_1 1863582_1	BG207209 BE166299 A BE873716 BE907282 A D80630 D80896 D808	4A009992 BE22 95	20675 AA34561	21		
15	459674 439579 439195 429163	118159_1 24302_1 21979_1 1238297_1	AW974566 AA649022 AF086400 W73990 W7 AF086037 H89360 H8 AW974271 AA592975	79232 9546 AA447312 AA8		97 BF950102		
20	411962 413020 415107 426413 414110	2307710_1 1485885_1 1856205_1 372468_1 1634167_1	AA099050 AA099526 BE048113 R98736 Z4 D61323 D60154 D815 AW954494 AA377823 BE253764 BE250764	2904 03 D81360 D60 BG219617 BG RE255757 BE2	195685 BG616 51752 BE2519	1269 A1022681 125	3	
٥.	432222	539529_1	BG207209 BE166299	AI204995 BG19	99355 AW9699	08 AA528756	6 AW440776 BI044354	
25	TABLE 9C:						•	
••	Pkey: Ref:	Sequ	"The DNA	it numbers in thi	s column are G			et al." refers to the publication entitled
30	Strand: Nt_position:	India India	ence of human chromos ates DNA strand from w ates nucleotide positions	hich exons were s of predicted ex	e predicted.	we (1999) 40	1 <u>Z</u> 4 03-435 .	
35	Pkey 404977 404550 403171 403907	Ref 3738341 6716010 9838164 7710682	Strand Minus Plus Minus Minus	Nt_position 43081-43229 190794-1924 74502-74703 61974-62170	418	i		
40	404815	5911819	Minus	64494-6469				
40	402992 401797	7767907 6730720	Minus Pius	42137-4251 6973-7118	0			
	401131	8699812	Minus	94802-9498	7,95804-95887	,96323-96487	7,9759	
	402855	9662953	Minus	59763-5990		20046 3031	4.4036	
45	404245 - 401130	7406725 8699792	Plus Plus	121013-121	2,37073-37813 360	,,0540-9391	4,40,55	
43	402233	7690102	Plus	90281-9147	_			
	402507	9797889	Plus	118979-119		-		
	403909 400615	7710682 9908994	Minus Plus		68,67678-6779! 1166,118681-11			
50	405267	1841544	Plus	72660-7298	3,78939-7926	2,82269-8260	1,8448	
	402812	6010110	Plus		11,25844-25921 1704	0		
	402794 402888	6136940 9930892	Minus Minus	131034-131 54727-5490				•
	402866	7708910	Minus	2524-3408				
55	402408	9796239	Minus	110326-110)491 'C			
	404913 403908	7341740 7710682	Plus Minus	97717-9797 63947-6418				
	406431	9256478	Minus	105179-105				
C 0	401621	8570184	Minus	193-608	2507			
60	403903 402685	7710671 8318556	Minus Plus	101165-102 58962-5929				
	405203	7230116	Plus	125295-12	5463			
	404063	3540156	Minus	55360-5760 20475-2073				
65	401176 404632	9438469 9796668	Minus Plus	45096-452				
. 70	TABLE 10							•
70	Pkey: Gene nam Accession UniGene:	e: Unicene d	Accession number, Gen	bank accession				
77.5	RATIO:	- ·	95th percentile of so tissue Als was subt	oft tissue sarcon	na Als divided l	by the 50th pe	ercentile of normal soft tissue Al	Is, where the 10th percentile of normal
75	SEQ ID #		and protein sequence	s provided on C	D for search p	urposes		•
	Pkey 426752	Gene Na	THE STATE OF THE S	Access X6949			2266 2267 6482	
80	400440	nebulin		X83957	7 Hs.838	70 17.8	24 25 4627	
	417070	titin	kulla11411→	Z19077			1070 5614 94 95 4851	
	407013 4067 0 4	gb:Huma	n nebulin mRNA, partial neavy polypeptide 7, card	cds U3563 flac mu M2166			55 56 4826	
_	- 417866	collagen,	type XI, alpha 1	AW067	7903 Hs.827	72 13.8	1162 5685	
85	417389	mldkine (neurite growth-promoting	g facto BE260			1109 5647	
	410621	tilin		AA194	329 Hs.172	004 12.3	481 5149	

					40.0	2004 7000
	444381	hypothetical protein BC014245	BE387335	Hs.283713	12.0	3697 7652
	432874	melanoma inhibitory activity	W94322	Hs.279651	11.3 11.3	2913 6968 1184 1185 5702
	418054	lysyl oxidase-like 2 interleukin enhancer binding factor 1	NM_002318	U8'0 2224	11.3	4767
5	405001 428405	cholinergic receptor, nicotinic, alpha	Y00762	Hs.2266	11.1	2436 2437 6615
J	414482	endothelin receptor type A	S57498	Hs.76252	11.0	824 825 5426
	410687	lysyl oxidase-like 1	U24389	Hs.65436	10.4	485 486 5153
	413011	biglycan	AW068115	Hs.821	10.3	669 5302
4.0	422311	cytokine receptor-like factor 1	AF073515	Hs.114948	10.0	1669 1670 6062
10	409633	ESTs	AW449822	Hs.55200	9.9	371 5068
	411296	growth suppressor 1	BE207307 W05391	Hs.10114 Hs.351546	9.4 8.8	524 5183 3301 7294
	438089	nuclear receptor subtamily 1, group 1, NM_003319*:Homo sapiens titin (TTN), m	_	H8.001040	8.7	4707
	403088 · 422069		AJ010063	Hs.343603	8.7	1635 1636 6037
15	443426	chromosome 20 open reading frame 1	AF098158	Hs.9329	8.4	3621 3622 7586
10	438091	nuclear receptor subfamily 1, group I,	AW373062	Hs.351546	8.3	3302 7295
	413566	sprouty (Drosophila) homolog 4	AW604451	Hs.381153	8.3	730 5347
	413278	interferon-stimulated protein, 15 kDa	BE563085	Hs.833	8.2	695 5322
20	414821	Fc tragment of IgG, high affinity la, r	M63835	Hs.77424	8.2	876 877 5465
20	425397	topoisomerase (DNA) il alpha (170kD)	J04088 Y09267	Hs.156346 Hs.132821	8.2 8.2	2099 2100 6369 1846 1847 6193
	423778 418506	flavin containing monooxygenase 2 Unknown protein for MGC:29643 (former		Hs.372651	8.1	1247 5748
	429259	Plakophilin	AA420450	Hs.380088	8.0	2535 6689
	438746	Human melanoma-associated antigen p9	7 AI885815	Hs.184727	7.9	3353 7337
25	435523	membrane-spanning 4-domains, subfamil		Hs.11090	7.8	3131 7147
	422627	transforming growth factor, beta-induce	BE336857	Hs.118787	7.7	1715 6097
	414812	monokine induced by gamma interferon	X72755	Hs.77367	7.6	874 875 5464
	427747		AW411425	Hs.180655 Hs.334762	7.6 7.6	2365 6557 3668 7627
30	444006	type I transmembrane protein Fn14 Intron of collagen, type XI, alpha 1	BE395085 AW451645	Hs.151504	7.5	2876 6938
50	432481 421143	immunoglobulin superfamily containing I	AB024536	Hs.102171	7.5	1510 1511 5949
	452701	glutamine-fructose-6-phosphate transami			7.5	4345 4346 8178
	451099	interleukin 13 receptor, alpha 2	R52795	Hs.25954	7.5	4212 8071
	425308	receptor tyrosine kinase-like orphan re	M97639	Hs.155585	7.5	2087 2088 6362
35	409142	SMC4 (structural maintenance of chromo	s AL136877	Hs.50758	7.4	312 313 <i>5</i> 027
	428981	ESTs, Weakly similar to ALU2_HUMAN	ALU BE31307	77 Hs.93135	7.3	2497 6660
	415166	carboxypepildase Z	NM_003652		7.3	913 914 5491 4341 8175
	452683	progesterone membrane binding protein	Al089575 AU077268	Hs.374574 Hs.76144	7.3 7.3	817 5421
40	414443 423217	platelet-derived growth factor receptor collagen, type VII, alpha 1 (epidermoly	NM_000094		7.2	1784 1785 6147
70	421508	absent in melanoma 2		Hs.1 05115	7.1	1551 1552 5977
	450447	hypothetical protein P15-2	AF212223	Hs.25010	7.0	. 4168 4169 8036
	424162	ESTs, Weakly similar to ALU2_HUMAN	ALU AA3362:	29 Hs.93135	7.0	1907 6235
4	446051	ephrin-A3	BE048061	Hs.37054	7.0	3816 7744
45	407792	putative secreted ligand homologous to	AJ077715	Hs.39384	6.9	162 4906
	400499	C10001858:gij6679124 ref]NP_032759.1		Hs.172004	6.9 6.8	4628 3245 7242
	437206	ESTs, Weakly similar to I38344 titin, c	AW975934	6 Hs.2 6988	6.8	4255 4256 8104
	451766 418478	ephrin-B3 cyclin-dependent kinase inhibitor 2A (m	U38945	Hs.1174	6.8	1245 1246 5747
50	433577	ESTs	AW007080		6.8	2989 7028
	418203	CDC28 protein kinase 2	X54942	Hs.83758	6.8	1202 1203 5719
	427337	Fc fragment of IgG, low affinity Ilib,	Z46223	Hs.176663	6.7	2318 2319 6521
	409012	DKFZP434I216 protein	AL117435	Hs.49725	6.6	293 294 5013
55	444784	ectonucleotide pyrophosphatase/phosph	100 U12489	Hs.11951	6.6 6.5	3724 3725 7673 2756 2757 6845
22	431183 448672	KDEL (Lys-Asp-Glu-Leu) endoplasmic re ESTs	A1955511	Hs.89582	6.5	4025 7917
	433075	sortilin 1		9 Hs.3 51872	6.4	2936 2937 6987
	448390	hypothetical protein	AL035414	Hs.21068	6.4	3999 7897
	413436	sphingosine kinase 1	AF238083	Hs.68061	6.4	721 722 5339
60	434149	hypothetical protein MGC5469	Z43829	Hs.244624		3030 7063
	452363	Homo sapiens, Similar to complement of	om Al582743	Hs.94953	6.3	4322 8159 2014 6308
	424870	ESTs hypothetical protein FLJ20093	T15545 AL133916	Hs.244624 Hs.47860	6.3 6.3	3389 7372
	439285 422667	ESTs	H25642	Hs.132821	6.3	1723 6102
65	448520	doublecortin and CaM kinase-like 1	AB002367	Hs.21355	6.3	4010 4011 7907
00	452291	CDC7 (cell division cycle 7, S. cerevis	AF015592	Hs.28853	6,3	4310 4311 8150
	417355	endothelln receptor type B	D13168	Hs.82002	6.3	1100 1101 5640
	427418	LAT1-3TM protein	AA402587	Hs.356667		2327 6527
70	437696	hypothelical protein dJ37E16.5	Z83844	Hs.5790	6.2	3281 7274
70	428450	KIAA0175 gene product	AW894667	1 Hs.1 84339 ' Hs.380138		2443 2444 6621 2229 6459
	426457 448595	chimerin (chimaerin) 1 KIAA0644 gene product	AB014544		6.1	4015 4016 7910
	418322	cyclin-dependent kinase inhibitor 3 (CD			6.0	1214 5727
	429903	cyclin-dependent kinase 5, regulatory s	AL134197	Hs.93597	6.0	2616 6746
75	408938	ESTs	AA059013	Hs.22607	6.0	279 5002
	417079	interleukin 1 receptor antagonist	U65590	Hs.81134	6.0	1073 1074 5616
	413795	ESTs	AL040178	Hs.142003		743 5358 3656 7617
	443907	TYRO protein tyrosine kinase binding pro-		Hs.9963 Hs.100623	5.9 5.9	3656 7617 4522 8326
80	456534 420162	phospholipase C, beta 3, neighbor pseu cyclin-dependent kinase 4	BE378432		5.8	1422 5883
JU	447217	neuropilin 2	BE465754		5.8	3904 7819
	419138	ryanodine receptor 1 (skeletal)	U48508	Hs.89631	5.8	1309 1310 5796
	427378	melanoma antigen, family D, 1	BE515037	Hs.177556		2322 6523
0.5	424263	L1 cell adhesion molecule (hydrocepha		Hs.1757	5.8	1925 1926 6246
85	439668	frizzled (Drosophila) homolog 8	AI091277	Hs.302634		3414 7397 506 507 5243
	412507	EphA4	L36645	Hs.73964	5.7	596 597 5243

			4.4.500044	II- 00770		2020 6740
	429921		AA526911	Hs.82772 Hs.76422	5.7 5.7	2620 6749 830 5431
	414555	phospholipase A2, group IIA (platelets, amphiphysin (Stiff-Mann syndrome with b	N98569	Hs.173034	5.7	2290 2291 6499
	426968 411021		F00055	Hs.172004	5.7	508 5169
5	424829	nerve growth factor receptor (TNFR supe			5.7	2007 2008 6303
_	411089	cell division cycle 2-like 1 (PITSLRE p	AA456454	Hs.214291	5.6	513 5173
	435905	KIAA0456 protein	AW997484	Hs.5003	5.6	3160 7168
	447343	ESTs, Highly similar to S02392 alpha-2-	AA256641	Hs.236894	5.6	3916 7828
10	400263	Eos Control	A A 270E20	Hs.75309 Hs.83968	5.6 5.5	4613 1212 _. 5725
10	418299	Integrin, beta 2 (antigen CD18 (p95), I ESTs	AA279530 Al610643	Hs.187285	5.5	4052 7937
	448961 429170	dual specificity phosphatase 4	NM_001394		5.5	2524 2525 6680
	404815	ENSP00000251989*:DJ100N22.1 (NOVE			5.5	4761
	425262	GS3955 protein	D87119	Hs.155418	5.5	2076 2077 6354
15	421506	thymidine kinase 1, soluble	BE302796	Hs.105097	5.5	1550 5976
	439039	ESTs	A1656707	Hs.48713	5.5	3373 7356 2922 6976
	432994	ESTs aldehyde dehydrogenase 3 family, membe	AA573452	Hs.150941 Hs.87539	5.5 5.5	1174 1175 5695
	418004 410223	calsequestrin 1 (fast-twitch, skeletal	S73775	Hs.60708	5.5	433 434 5115
20	422765	bacutoviral IAP repeat-containing 5 (su	AW409701	Hs.1578	5.5	1734 6110
	451598	ESTs	N29102	Hs.79658	5.5	4241 8093
	424078	paternally expressed 3	AB006625	Hs.139033	5.5	1893 1894 6225
	400288	Integrin, alpha 5 (fibronectin receptor	X06256	Hs.149609	5.4	1 2 4614
25	416491	parathyrold hormone receptor 1	U17418	Hs.1019	5.4	1005 1006 5567 4343 4344 8177
23	452698 451292	chemokine (C-C motif) receptor 1 KIAA1295 protein	NM_001295 AB037716	Hs.26204	5.4 5.4	4221 4222 8079
	454071	ESTs	Al041793	Hs.42502	5.4	4487 8295
	410011	PFTAIRE protein kinase 1	AB020641	Hs.57856	5.4	406 407 5096
	412939	eukaryotic translation elongation facto	AW411491	Hs.75069	5.3	657 5292
30	432691	mitogen-activated protein kinase 7	U29725	Hs.3080	5.3	2897 2898 6956
	448569	signal transducer and activator of tran	BE382657	Hs.21486	5.3	, 4014 7909
	414477 416140	amplified in osteosarcoma roundabout (axon guidance receptor, Dro	U41635	Hs.76228 Hs.301198	5.3 5.3	822 823 5425 978 5545
	441389	endocytic receptor (macrophage mannos		Hs.7835	5.3	3514 3515 7488
35	447232	interleukin 10 receptor, alpha	AW499834	Hs.327	5.3	3905 7820
•	456181	ras inhibitor	L36463	Hs.1030	5.3	4516 4517 8321
	408482	adenosine A2b receptor	NM_000676		5.3	226 227 4959
	425964	progesterone membrane binding protein	AW889928	Hs.9071	5.2	2157 6408
40	421920	gamma-aminobutyric acid (GABA) recept	or BE551245 AA262294	Hs.1438 Hs.180383	5.2 5.2	1614 6022 2361 6554
40	427700 414024	dual specificity phosphatase 6 gb:zm79g08.r1 Stralagene neuroepithelis		Hs.22410	5.2	769 5379
	443960	hypothetical protein FLJ21986	Al093577	Hs.255416	5.2	3663 7623
	421251	enigma (LIM domain protein)	Z28913	Hs.102948	5.2	1521 5957
4.5	419762	ESTs	AI608647	Hs.32374-		1387 5855
45	422175	ESTs, Highly similar to T00391 hypothet		Hs.6382	5.2	1657 6053
	426485	platelet-derived growth factor receptor		7 Hs.1 70040	5.1 5.1	2238 2239 6465 2519 2520 6677
	429150 409430	smoothened (Orosophila) homolog splicing factor, arginine/serine-rich 5	AF120103 R21945	Hs.197366 Hs.346735	5.1	348 5052
	418059	gb:zn56d05.s1 Stratagene muscle 93720			5.1	1186 5703
50	427647	Homo sapiens cDNA FLJ20653 fis, clone		Hs.180059	5.1	2354 6548
-	438937	ESTs	AW952654		5.1	3367 7350
	449353	ESTs	AA001220	Hs.242947	5.1	4084 7966
	432101	EphA3	A1918950	Hs.123642	5.1 5.1	2841 6909 1281 5774
55	418883 417115	acid phosphatase 5, tartrate resistant small nuclear ribonucleoprotein polypep	BE387036 AW952792	Hs.1211 Hs.334612	5.0	1081 5622
	424291	ephrin-B1	AL120051	Hs.144700	5.0	1931 6249
	435652	uncharacterized hypothalamus protein H		Hs.334370	5.0	3142 7154
	410342	Fc fragment of IgE, high affinity I, re	R31350	Hs.743	5.0	453 5129
60	453880	ESTs, Weakly similar to I38022 hypothet		Hs.135121	5.0	4458 8272
60	419452	PTK7 protein tyrosine kinase 7	U33635 · AW131454	Hs.90572 Hs.168571	5.0 5.0	1340 1341 5821 3056 7082
	434431 406621	ESTs Immunoglobulin lambda locus	X57809	Hs.181125		26 27 4810
	419250	U5 snRNP-specific protein, 116 kD	AW770185			1322 5806
	419073	Homo sapiens cDNA FLJ12797 fis, clone				1296 5786
65	440700	guanine nucleotide binding protein (G p	AW952281			3481 7458
	417089	Homo sapiens cDNA: FLJ21909 fis, clon		Hs.18612	5.0	1077 5619 2852 6917
•	432211	hypothetical protein FLJ10986 ESTs	BE274530 AA771898	Hs.273333 Hs.33412	5.0 4.9	663 5296
	412972 414883	CDC28 protein kinase 1	AA926960	Hs.348669		885 5471
70	427557	plasminogen ectivator, urokinase recept		9 Hs.1 79657		2343 2344 6539
. •	439706	ESTs, Weakly similar to DAP1_HUMAN	DEAT AW87	2527 Hs.5976		3421 7404
	452682	progesterone membrane binding protein				4340 8174
	446291	interferon, gamma-inducible protein 30	BE397753	Hs.14623 Hs.8881	4.9 4.9	3833 7760 1272 5767
75	418741 448379	ESTs, Weakly similar to \$41044 chromo KIAA1130 protein	Al097463	Hs.21035	4.9	3995 7894
75	447198	ESTs	D61523	Hs.283435		3898 7814
	412926	macrophage myristoylated alanine-rich (Hs.75061	4.9	655 5290
	411263	kinesin-like 6 (mitolic centromere-asso	BE297802	Hs.69360	4,9	523 5182
00	407239	leukocyte immunoglobulin-like receptor,	AA076350		4.9	129 4879
80	439453	thyroid hormone receptor interactor 13	BE264974 BE515051		4.9 4.8	3399 7382 671 5304
	413031 418526	phosphofructokinase, muscle solute carrier family 16 (monocarboxyli	BE019020		4.8	1251 5752
	410422	Homo sapiens, clone MGC: 15203, mRN				462 5136
^-	429470	guanine nucleotide binding protein (G p	A1878901	Hs.203862	4.8	2564 6711
85	445930	Homo sapiens clone 24747 mRNA sequ				3804 7734
	425525	ESTs	AA358883	Hs.23871	4.8	2111 6377

	443623	complement company to a subsequent				
	417421	complement component 1, q subcomponent complement component 4, group A,	ent, AA345519 AL138201	Hs.9641 Hs.82120	4.8	3631 7594
	449579	ESTs, Weakly similar to T46425 hypothe	AW207260	Hs.134014	4.8 4.8	1118 5653 4097 7978
	450296	hepatocyte growth factor-regulated tyro	AL041949	Hs.24756	4.8	4153 8023
5	453905	LIM domain kinase 1	NM_002314		4.8	4462 4463 8276
	418532	neurotrophic tyrosine kinase, receptor,	F00797	Hs.374321	4.8	1252 5753
	443402	elastin (supravalvular aortic stenosis,	U77846	Hs.9295	4.8	3619 3620 7585
	431385 425003	membrane-spanning 4-domains, subfami	y BE178536	Hs.11090	4.8	2779 6863
10	410781	apurink/apyrimidinic endonuclease(APE) ESTs		Hs.154149	4.8	2038 2039 6326
	420261	fibroblast growth factor receptor 1 (fm	AJ375672 AW206093	Hs.165028 Hs.748	4.8 4.8	495 5159
	452110	Homo sapiens cDNA FLJ11309 fis, clone		Hs.28005	4.7	1440 5897 4290 8132
	419066	PRO1073 protein	Z98492	Hs.203862	4.7	1295 5785
1.5	448386	KIAA1329 protein	AB037750	Hs.21061	4.7	3997 3998 7896
15	449029	solute carrier family 7 (cationic amino	N28989	Hs.22891	4.7	4058 7942
	451752	KIAA1171 protein	AB032997	Hs.353087	4.7	4252 4253 8102
	416737 430280	LIM domain protein	AF154335	Hs.79691	4.7	1028 1029 5582
	429345	Interleukin 7 receptor hypothetical protein	AA361258	Hs.237868	4.7	2673 6787
20	425514	Integrin, alpha 10	R11141 AF112345	Hs.199695 Hs.158237	4.7 4.7	2548 6700
	449523	chemokine (C-C motif) receptor 5	NM_000579		4.7	2108 2109 6375 4094 4095 7976
	422599	non-metastatic cells 1, protein (NM23A)	BE387202	Hs.118638	4.7	1710 6092
	409098	pleckstrin homology, Sec7 and coiled/co		Hs.7984	4.7	303 5020
25	412641	heat shock 90kD protein 1, beta	M16660	Hs.74335	4.7	620 621 5260
25	424982	phosphorylase, glycogen	U94777	Hs.351580	0.0	2036 2037 6325
	400991 413441	Target Exon	41000074		4.7	4641
	422609	Src-like-adapter sialidase 1 (tysosomal sialidase)	AI929374	Hs.75367	4.7	723 5340
	424442	ESTs, Weakly similar to ZN91_HUMAN Z	Z46023	Hs.118721	4.6	1711 6093
30	433895	mitogen-activated protein kinase kinase	Al287912	Hs.3628	4.6 4.6	1954 6268 3014 7048
	410711	KIAA0318 protein	AB002316	Hs.65746	4.6	489 490 5155
	435232	cyclin-dependent kinase Inhibitor 2C (p	NM_001262		4.6	3114 3115 7132
	424512	integrin, beta 5	X53002	Hs.149846	4.6	1968 1969 6277
35	421707	lectomedin-2	NM_014921	Hs.1 07054	4.6	1581 1582 5995
33	451050	ESTs	AW937420	Hs.351869	4.6	4588 8067
	447200 424503	Homo sapiens cDNA FLJ14028 ffs, clone			4.6	3899 7815
	447359	inlegrin, alpha 5 (fibronectin receptor adenylate kinase 5	NM_002205		4.6	1965 1966 6275
	437763	tissue inhibitor of metalloproteinase 1	NM_012093 AA469369	Hs.5831	4.6 4.6	3918 3919 7830
40	448775	nudix (nucleoside diphosphate linked mo		Hs.388	4.6	3285 7278 4036 4037 7927
	419088	integrin, beta 8	AI538323	Hs.380684	4.6	1303 5791
	414809	transferrin receptor (p90, CD71)	Al434699	Hs.77356	4.6	873 5463
	448030	membrane-spanning 4-domains, subfamil	y N30714	Hs.325960	4.6	3971 7873
45	419693	FXYD domain-containing ion transport re		Hs.301350	4.6	1371 5844
4,5	417098 414907	frizzled (Drosophila) homolog 7	AB017365	Hs.173859	4.6	1078 1079 5620
	414561	polo (Drosophia)-like kinase Homo sapiens amino acid transport syste	X90725	Hs.77597	4.6	886 887 5472
	400262	Eos Control		Hs.195155 Hs.75309	4.6 4.6	831 5432
	428484	solute carrier family 7 (cationic amino		Hs.184601	4.6	4612 2449 2450 6624
50	447674	cyclin-dependent kinase 2		Hs.19192	4.6	3947 7854
	411027	leukocyte immunogłobulin-like receptor,		Hs.67846	4.5	509 510 5170
	422034	Ets2 repressor factor	AC006486	Hs.333069	4.5	1627 1628 6032
	447321	Homo sapiens cDNA FLJ14028 fis, clone	H AW271217	Hs.281434	4.5	3915 7827
55	425741	Homo sapiens done 24628 mRNA sequer				2133 6391
55	451811 435575	hypothetical protein MGC1136 triggering receptor expressed on myeloi		Hs.8719	4.5	4259 8106
	412773	similar to vaccinia virus Hindill K4L O		Hs.44234 Hs.74573	4.5 4.5	3139 3140 7152
	447898	6.2 kd protein		Hs.380920	4.5	639 5276 3966 7868
<i>c</i> 0	409799	phosphoserine phosphatase-like		Hs.76845	4.5	387 5081
60	417640	protein C receptor, endothelial (EPCR)		Hs.82353	4.5	1143 5669
	416982	creatine kinase, mitochondrial 2 (sarco		Hs.80691	4.5	1055 1056 5602
	427274 410290	colony stimulating factor 1 receptor, f		ts.1 74142	4.5	2313 2314 6517
	413048	hypothetical protein DKFZp564A176 mannose receptor, C type 1		Hs.322844	4.5	449 5126
65	444143			Hs.75182 Hs.160999	4.4	672 673 5305
	425082	Inositol 1,4,5-triphosphate receptor, t		Hs.102991	4.4 4.4	3679 7637
	429455			Hs.278694	4.4	2048 6333 2563 6710
	421917			Hs.109445	4.4	1612 1613 6021
70	445033			Hs.72901	4.4	3740 7685
70	452203	transporter 1, ATP-binding cassette, su	X57522	Hs.352018	4.4	4298 4299 8140
	446566	membrane-spanning 4-domains, subfamily		Hs.17914	4.4	3857 7778
	409512 456629			Hs.293591	4.4	354 5057
	425776			Hs.367942 Hs.159499	4.4	4526 8329
75	439963			1s.6793	4.4 4.4	2138 2139 6394 3441 7423
	414280			ds.75873	4.4	796 5403
	451820	ESTs		ts.199248	4.4	4260 B107
	416084	deoxythymidylate kinase (thymidylate ki	L16991 1	ls.79006	4.3	972 973 5540
80	424905	NIMA (never in mitosis gene a)-related	NM_002497 H	s.1 53704	4.3	2022 2023 6315
50	425770	spastic alaxia of Charlevoix-Saguenay (NM_014363 H		4.3	2136 2137 6393
	434826 426265			ls.22265	4.3	3078 3079 7101
	410240			ls.97896 le 61290	4.3	2189 6432
o -	433028	a market and a second a second and a second		ts.61289 ts.283737	4.3 4.3	437 5117 2928 6980
85	436856	ESTs	A1469355 I	łs 127310	43	3220 7221
	407603	Homo sapiens, clone IMAGE:4299322, mF	NA AW95570	Hs.62604	4.3	144 4890
						-

	439223		AW238299	Hs.250618	4.3	3383 7366
	425289		AW139342 AF072B13	Hs.155530 Hs.252831	4.3 4.3	2082 6358 2783 6867
	431429 438209		AL120659	Hs.6111	4.3	3309 7301
5	410055		AJ250839	Hs.58241	4.3	414 415 5102
_	416860	actin filament associated protein	D25248	Hs.80306	4.3	1043 5593
	448988	gamma-aminobutyric acid (GABA) A recep	t Y09763	Hs.22785	4.3	4055 4056 7940
	420173	ESTs	AA256151	Hs.22999	4.3	1426 5886
10	408331	dual specificity phosphatase 12	NM_007240		4.3	211 212 4948
10	417920	adenosine monophosphate deaminase 2 (Hs.82927	4.3 4.3	1167 1168 5690 4674
	402233 447357	NM_030760*:Homo saplens endothelial di ESTs	Al375922	Hs.132821	4.3	3917 7829
	408056	ephrin-A4	AA312329	Hs.42331	4.3	188 4930
	425322	protein kinase, DNA-activated, catalyti	U63630	Hs.155637	4.3	2089 2090 6363
15	427509	complement component 5 receptor 1 (C5a	M62505	Hs.2161	4.3	2338 2339 6535
	451154	ESTs	AA015879	Hs.33536	4.3	4215 8074
	414368	uridine monophosphate kinase	W70171	Hs.75939	4.2 4.2	809 5414 1119 1120 5654
	417426	laminin, beta 1 G-protein coupled receptor	NM_002291 AA098901	Hs.301642	4.2	2809 6885
20	431674 453922	budding uninhibited by benzimidazoles 1	AF053306	Hs.36708	4.2	4467 4468 8279
20	410552	fibroblast growth factor receptor 1 (fm	X66945	Hs.748	4.2	474 475 5144
	411213	neuropilin 1	AA676939	Hs.69285	4.2	519 5179
	414178	ESTs, Weakly similar to 138022 hypothet		Hs.46791	4.2	788 5396
25	452873	hypothetical protein FLJ10385	AK001247	Hs.30922	4.2 4.2	4362 4363 8192 2605 6737
25	429687	nucleoporin 153kD protein tyrosine phosphatase, receptor	Al675749 AK001335	Hs.211608 Hs.31137	4.2	4373 8201
	452960 448888	caspase recruitment domain protein 6	AW196663	Hs.200242	4.2	4049 7935
	416914	brain and reproductive organ-expressed	AA344481	Hs.80426	4.2	1045 5595
	411704	hypothetical protein FLJ10074	A1499220	Hs.71573	4.2	547 5202
30	415817	protein tyrosine phosphatase, receptor-	U88967	Hs.78867	4.2	950 951 5522
	452908	neuronal Shc adaptor homolog	AB001451	Hs.30965	4.2	4369 4370 8198 634 5271
	412723	hypothetical protein AF301222	AA648459 AA424793	Hs.335951 Hs.255416	4.2 4.2	2415 6597
	428259 414774	ESTs plasminogen activator, urokinase	X02419	Hs.77274	4.2	869 870 5461
35	425966	cyclin F	NM_001761		4.2	2158 2159 6409
	424893	Homo saplens cDNA FLJ13303 fis, clone	O AW29511	2 Hs.153648	4.1	2020 6313
	437162	thyroid hormone receptor coactivating p	AW005505	Hs.5464	4.1	3239 7237
	425354	complement component 3a receptor 1	U62027	Hs.155935	4.1	2093 2094 6365 3544 7516
40	441965	ESTs ENCONOMINATION AND TRANSPORTER IN	AA972712	Hs.269737	4.1 4.1	4785
40	405516 413053	ENSP00000200457*: Thyroid receptor int ESTs, Moderately similar to KIAA1399 pr		Hs.65377	4.1	674 5306
	424415	enolase 2, (gamma, neuronal)	NM_001975	Hs.1 46580	4.1	1947 1948 6263
	450747	ESTs, Highly similar to 1818357A EWS g		Hs.129953	4.1	4188 8052
	419911	BN51 (BHK21) temperature sensitivity of	L15301	Hs.1276	4.1	1393 1394 5861
45	441834	KIAA0736 gene product	AL138034	Hs.7979	4.1	3539 7511
	400252	NM_004651*:Homo sapiens ubiquitin spe		Hs.171501 3 Hs.1 3530	4.1 4.1	4609 3808 3809 7738
	446006 416389	deafness, autosomal dominant 5 integrin, beta 5	AA180072	Hs.149846	4.1	998 5561
	415149	cathepsin L	X12451	Hs.78056	4.1	911 912 5490
50	448633	tubulin, gamma 1	AA311426	Hs.21635	4.1	4021 7913
	416224	reticulocalbin 2, EF-hand calcium bindi		2 Hs.7 9088	4.1	983 984 5550
	413658	A kinase (PRKA) anchor protein 10	AA055369	Hs.372446	4.1	734 5351 309 310 5025
	409132	protein kinase, AMP-activated, beta 2 n	AJ224538 AW157646	Hs.50732 Hs.198689	4.1 4.1	3745 7690
55	445133 412749	ESTs signal sequence receptor, beta (translo	AA378417	Hs.74564	4.1	635 5272
55	412/49 408716	Homo sapiens mRNA for KIAA1769 prob			4.1	251 4981
	443669	ESTs	Al140462	Hs.134587	4.1	3633 7596
	424494	phosphatidylinositol-4-phosphate 5-kina	U78575	Hs.149255	4.1	1961 1962 6273
60	440524	ESTs	R71264	Hs.16798	4.1 4.1	3474 7452 4059 7943
60 _	449030 425367	Homo sapiens mRNA for FLJ00016 protoprotein tyrosine phosphatase, receptor	BE271188	Hs.57100 Hs.155975	4.1	2095 6366
	424954	tumor protein p53 (Li-Fraumeni syndrom			4.1	2031 2032 6322
	448610	nel (chicken)-like 1	NM_00615	7 Hs.2 1602	4.1	4019 4020 7912
	440129	ESTs, Weakly similar to S71886 Ste20-I	AA865818	Hs.369523	4.1	3456 7436
65	414998	oxidised low density lipoprotein (lecti		3 Hs.7 7729	4.0	898 899 5480
	406137	NM_000179*:Homo sapiens mutS (E. co membrane-associated tyrosine- and three		Hs,351474	4.0 4.0	4802 3386 7369
•	439246 430713	eukaryotic translation elongation facto	AA351647	Hs.2642	4.0	2726 6824
	434158	ESTs	T86534	Hs.14372	4.0	3031 7064
70	436703	RNA binding motif protein, X chromoson	ne AW880614	4 Hs.374352		3211 7212
	436576	ESTs	AJ458213	Hs.77542	4.0	3203 7205
	416062	Homo saplens cDNA FLJ14609 fis, clon	e N AA/2461 F01082		4.0 4.0	967 5535 4515 8320
	456115 427315	tilin Homo sapiens mRNA	AA179949	Hs.172004 Hs.175563		2316 6519
75	412942	mitogen-activated protein kinase-activa	AL120344		4.0	658 5293
	430233	Homo sapiens mRNA	AW367902			2664 6781
	446272	hematopoletic cell-specific Lyn substra	BE268912		4.0	3832 7759
	429922	H1 histone family, member 0	Z97630	Hs.226117		2621 2622 6750
80	450746	general transcription factor II, I	D82673 H69912	Hs.278589 Hs.48269	4.0 4.0	4187 8051 262 4989
30	408805 448950	vaccinia related kinase 1 CGI-152 protein	AF288687		4.0	4050 4051 7936
	409208	integrin, alpha X (antigen CD11C (p150		Hs.172631		326 327 5038
	418918	CD2 antigen (p50), sheep red blood cell		Hs.89476	4.0	1282 1283 5775
0.5	422801	nuclear receptor co-repressor 2	AF125672			1739 1740 6114
85	421846	protein kinase C substrate 80K-H	AA017707		4.0	1601 6012 2305 2306 6511
	427157	thymine-DNA glycosylase	U51166	Hs.173824	4.0	2303 2300 031 1

	449444	aututa agrice familie 16 (managarhandi	AMM4049C	U- 251200	40	4000 7070
	415910	solute carrier family 16 (monocarboxyli chemokine (C-X3-C) receptor 1	AW818436 U20350	Hs.351306 Hs.78913	4.0 4.0	4088 7970 957 958 5527
	445826	Homo sapiens mRNA	BE313754	Hs.13350	4.0 0.0	3800 7730
	424441	H2A histone family, member X	X14850	Hs.147097	4.0	1952 1953 6267
5	428134	ESTs	AA421773	Hs.161008	4.0	2401 6586
	452355	G protein-coupled receptor 34	N54926	Hs.29202	4.0	4320 8157
	416847	enhancer of filamentation 1 (cas-like d	L43821	Hs.80261	4.0	1039 1040 5590
	443163	ESTs	Al082610	Hs.132079	4.0	3605 7572
10	405203	NM_002086*:Homo sapiens growth factor			4.0	4772
10	407844	ESTs	AW073716	Hs.8037	4.0	168 4912
	410545	interleuidin 11 receptor, alpha	U32324	Hs.64310	4.0	472 473 5143
	408847 443068	ESTs ESTs	AW290997	Hs.190153	3.9 .	268 4993 3597 7565
	412182	Splicing factor, arginine/serine-rich,	AI188710 AA205588	Hs.374480 Hs.73737	3.9 3.9	577 5226
15	452256	Homo sapiens cDNA FLJ10071 fis, clone			3.9	4306 8146
15	449335	STAT induced STAT inhibitor 3	AW150717	Hs.345728	3.9	4081 7963
	453018	ESTs, Weakly similar to Trad (H.sapiens		Hs.61581	3.9	4379 8207
	452888	ephrin-B2	AW955454	Hs.30942	3.9	4366 8195
	403668	Target Exon			3.9	4727
20	431629	interferon, alpha-inducible protein (cl	AU077025	Hs.265827	3.9	2803 6881
	407102	glycerol-3-phosphate dehydrogenase 1 (s	AA007629	Hs.348601	3.9	109 4861
	418005	collagen, type XV, alpha 1	Al186220	Hs.83164	3.9	1176 5696
	415801	Fc fragment of IgG, low affinity Ilb, r	R24219	Hs.278443	3.9	948 5520
25	451253	claudin 10	H48299	Hs.26126	3.9	4220 8078
25 .	428245	anaphase promoting complex subunit 11	_	Hs.183180	3.9	2412 2413 6595
	424439	ligase I, DNA, ATP-dependent	AA579635	Hs.1770	3.9	1950 6265
	423201	growth hormone receptor	NM_000163		3.9	1782 1783 6146
	430053	SEC13 (S. cerevislae)-like 1	AF052155	Hs.227949	3.9	2643 6766
30	405372 452239	NM_006841:Homo sapiens transporter pr	OL AW379378	Hs.356289	3.9 3.9	4778 4303 8143
30	45223 9 450377	protein tyrosine phosphatase, receptor KIAA1265 protein	AB033091	Hs.355925	3.9	4160 4161 8029
	406519	C10001858:gi]6679124[ref[NP_032759.1]		110.000020	3.9	4808
	413186	solute carrier family 16 (monocarboxyli	AU077141	Hs.75231	3.9	685 5315
	432860	ESTs	AW974077	Hs.283349	3.9	2912 6967
35	409849	hypothetical protein FLJ20442	AA159216	Hs.55505	3.9	373 5070
-	458997	ESTs	AW937420	Hs.351869	3.9	4588 8384
	451063	HLA-B associated transcript-2	AW163702	Hs.25911	3.9	4209 8069
	412810	platelet-derived growth factor receptor	M21574	Hs.74615	3.9	649 650 5285
40	426156	natriuretic pepilde receptor A/guanylat	BE244537	Hs.167382	3.9	2183 6427
40	416110	hypothetical protein DKFZp564A176	Z42262	Hs.322844	3.9	974 5541
	437056	gb:ok33a11.s1 Soares_NSF_F8_9W_OT			3.9	3234 7233
	414260	KIAA0218 gene product	NM_014760		3.9	793 794 5401
	429002	junction plakoglobin	AW248439	Hs.2340	3.8	2498 6661
45	435553 428479	KIAA0176 protein cell division cycle 2, G1 to S and G2 t	D79998 Y00272	Hs.4935 Hs.334562	3.8 3.8	3134 3135 7149 2447 2448 6623
73	407202	ESTs	N58172	Hs.109370	3.8	120 4872
	439863	paired immunoglobulin-like receptor bet	BE547830	Hs.375208	3.8	3434 7417
	409264	KIAA0966 protein	NM_014937		3.8	335 336 5043
	423798	solute carrier family 4, sodium bicarbo	AF047033	Hs.132904	3.8	1850 1851 6196
50	449843	solute carrier family 31 (copper transp	R85337	Hs.24030	3.8	4117 7995
	446055	mucolipin 1	AI815981	Hs.12909	3.8	3817 7745
	438330	ESTs	AW450572	Hs.257316	3.8	3316 7307
	418827	HT021	BE327311	Hs.47166	3.8	1275 5770
<i>E E</i>	419913	ESTs	AW270040	Hs.34455	3.8	1395 5862
55	422241	protein tyrosine phosphalase, receptor	Y00062	Hs.170121	3.8	1663 1664 6058
	423354	calcium channel, voltage-dependent, alp		Hs.127436	3.8	1798 1799 6157
	433556	calcium/calmodulin-dependent protein ki		Hs.111460	3.8	2987 7026 4676
	402260 436648	NM_001436*:Homo sapiens fibrillarin (FE ESTs	R18656	Hs.349845	3.8 3.8	3209 7210
60	400292	NAME OMITTED receptor kinase	AA250737	Hs.72472	3.8	5 4616
••	411756	discoidin domain receptor family, membe		Hs.71891	3.8	550 5205
	426691	PCTAIRE protein kinase 1		Hs.1 71834	3.8	2262 2263 6480
	408486	sodium channel, voltage-gated, type IV,	L04236	Hs.46038	3.8	228 229 4960
	424240	calcium/calmodulin-dependent protein ki	AB023185	Hs.143535	3.8	1919 1920 6242
65	436434	putative 47 kDa protein	N50465	Hs.372732	3.8	3188 7193
	412432	ESTs	AA126311	Hs.9879	3.8	585 5234
	421487	serine/threonine kinase 23	AF027406	Hs.104865	3.8	1548 1549 5975
	400205	NM_006265*:Homo sapiens RAD21 (S. p		Hs.81848	3.8	4598
70	429482	transformation/transcription domain-ass	AF076974	Hs.203952	3.8	2567 2568 6713
70	415906	Homo saplens cDNA: FLJ22256 fis, clore		Hs.288741	3.8	956 5526
	424232	protein kinase C, nu interleukin 1 receptor, type l	AB015982 X16896	Hs.143460 Hs.82112	3.8 3.8	1917 1918 6241 1116 1117 5652
	417412 422105	endosulfine alpha	A1929700	Hs.111680	3.8	1645 6043
	424837	N-acetyltransferase, homolog of S. cere	BE276113	Hs.333034	3.8	2010 6305
75	412970	dual specificity phosphatase 10	AB026436	Hs.177534	3.8	661 662 5295
	427217	ESTs	AA399272	Hs.144341	3.8	2310 6514
	437275	ESTs, Weakly similar to A47582 B-cell g	AW976035	Hs.292396	3.8	3251 7248
	435466	G protein beta subunit-like	BE619165	Hs.29203	3.7	3128 7144
0.0	408972	DKFZP586D0919 protein	AL050100	Hs.49378	3.7	287 288 5008
80	400229	NM_021724*:Homo sapiens nuclear rece	epto	Hs.276916	3.7	4602
	450254	neuropeptide G protein-coupled receptor			3.7	4147 4148 8018
	413472	solute carrier family 1 (glial high aff	BE242870	Hs.75379	3.7	725 5342
	408105	ESTs, Weakly similar to I38022 hypothet		Hs.270977	3.7	190 4932
85	453613 435732	ESTs leucine rich repeat and death domain co	F06B38	Hs.374476	3.7 3.7	4430 8250 3147 3148 7159
0.5	435732 450998	splicing factor 3b, subunit 4, 49kD	AF229178 BE387614	Hs.123136 Hs.25797	3.7 3.7	4205 8065
	700330	שווער ול זוונטים ניטי ושיים ו אייים און	55501014	110.40/5/	J. 1	7200 0000

	409882	heat shock 27kD	protein family, member	AJ243191	Hs.56874	3.7	395 396 5087	
	424779	CD37 antigen		AL046851	Hs.153053	3.7	1999 6298	
	426108	programmed cell		AA622037	Hs.166468	3.7	2173 6420	
5	428727	general transcrip	otion factor IIH, polyp, imilar to A47582 B-cell g	AF078847 AW408158	Hs.78452 Hs.318893	3.7 3.7	2466 2467 6637 3384 7367	
5	439237 413407		sphate phosphatase-like	Al356293	Hs.75339	3.7	713 5333	
	430066	signal recognition		AI929659	Hs.237825	3.7	2647 6769	
	428293	solute carrier far	nlly 1 (neutral amino	BE250944	Hs.183556	3.7	2424 6605	
10	438707		em N trænsporter 2	L08239	Hs.5326	0.0	3350 3351 7335	
10	418043	AXL receptor tyr		AW377752	Hs.83341	3.7	1182 5700 2024 2025 6316	
	424909 418836	cell division cycle ESTs	8 238	S78187 Al655499	Hs.153752 Hs.161712	3.7 3.7	1276 5771	
	425717	refinoic acid reco	entor, heta	X07282	Hs.171495	3.7	2131 2132 6390 -	
	428283	Homo sapiens n		Al439096	Hs.323079	0.0	2420 6602	
15	410017		lone 24775 mRNA seque	ince AW9524	26 Hs.10943	8 3.7	408 5097	
	407330		NCI_CGAP_Kid6 Homo s				136 4884	
	412760	ESTs	:DNA FLJ12832 fis, clone	AW379030	Hs.41324 Hs.179852	3.7 3.7	638 5275 3830 7757	
	446254 437429	Homo sapiens n		H79981	Hs.5613	0.0	3260 7255	
20	416041	hypothetical pro		AA345547	Hs.53263	3.7	964 5532	
	429379	KIAA0537 gene		NM_014840	Hs.2 00598	3.7	2552 2553 6703	
	442831	ESTs		A1798959	Hs.131686	3.7	3586 7554	
	453327	tryptophanyl-tRi		AW500180	Hs.356109	3.7 3.7	4412 8235 3792 3793 7724	
25	445701 411887	lymphocyte ada ESTs	ptor protein	AF055581 AW182924	Hs.13131 Hs.128790	3.7	557 5210	
23	420311	Human DNA se	quence from clone RP4-5	3011 AW4450	144 Hs.38207		1444 5901	
	449222	ESTs	1	AW293984	Hs.197621	3.7	4071 7954	
	422851	hypothetical pro		AA318060	Hs.135121	3.7	1750 6121	
20	417767		irolase (neutrophil)	BE242241	Hs.82542	3.7	1155 5678	
30	407235	Homo sapiens r	sor of actin mutations 2,	D20569 AA447453	Hs.169407 Hs.27860	3.6 0.0	128 4878 · 4286 8129	
	452093 430440		ctor, beta polypeptide	X52599	Hs.2561	3.6	2697 2698 6804	
	421524	GDNF family re		AA312082	Hs.105445	3.6	1556 5980	
	452882	folate transports		AW972990	Hs.196270	3.6	4365 8194	
35	429558		ntigen (55kD) similar to	AI391454	Hs.207251	3.6	2579 6721	
	409190	sarcoma amplif	ned sequence similar to KIAA1330 prote	AU076536	Hs.50984 Hs.55950	3.6 3.6	· 321 5034 537 5194	
	411411 414176		nelial differentiation, ly	BE140638	Hs.75794	3.6		
	442875	Homo sapiens	clone TCCCTA00142 mR					
40	428820	integrin, alpha l	M (complement compone	nt AA436187	Hs.172631	3.6	2476 6644	
	429732		osolic protein 2 (SH2 don		Hs.2488	3.6		
	422573 432268	integrin, aipna v	V (vitronectin recepto nostne 5'-phosphosulfate	AW297985	Hs.295726 Hs.274230			
	408243	interleukin 8	enment denide c enteni	Y00787	Hs.624	3.6		
45	428648		age-gated channet, subfa		Hs.188021		2459 2460 6632	
	423072	solute carrier fa	amily 12 (sodium/potass	A1792946	Hs.123116			
	412791		similar to \$72481 probab		Hs.143199			
	441054 439490	ESTs Woodshire	similar to A46302 PTB-as	AA913591	Hs.126480 Hs.100043			
50	432179	EphB3	Sitting to A-10502 10-65	X75208	Hs.2913	3.6		
	447560	phospholipase	A2, group IVC (cytosolic,		Hs.18858	3.6		
	454146		ding protein calsarcin-1	BE086548	Hs.381047			
	429320	ESTs, Weakly	similar to 178885 serine/t -phosphoprotein 1 (Hsp70	AA449838	Hs.119334 Hs.75612	3.6 3.6		
55	413900 438014	Homo espiens	cDNA FLJ11971 fis, clon	e H N71183	Hs.121806			
55	435021	ESTs		AA922192		3.6		
	434398		e kinase (SNK)	AA121098	Hs.3838	3.6		
	448499	p53-regulated		BE613280		3.6		
60	424156	myotubularin n galactokinase	elated protein 4	AF264717 AF084935		3.6 3.6		
00	419700 457918		oteln DKFZp762M186	AL359590				
	413132	protein kinase	(cAMP-dependent, cataly			3.6		
		•						
65								
65	TABLE 10B	· ·						
	Pkev:		Eos probeset identifier n	umber				
	CAT number		tuster number					
70	Accession:	Genbar	nk accession numbers					
70	-	047.11	A l - m					
	Pkey 418059	CAT Number .	ACCESSION AA211586 F35799 F2972	20 AW93740R	ΔW937387 Δ	A21164	41	
	437056		AW976398 Al147061 AA					
	10.000							
75	TABLE 100				_			
	Pkey:	Unique	number corresponding to	o an Eos prob	eset	'anhaak	A Manifiles (CI) aumham "Dunham I at at " rafers to the nublication	antillad
	Ref:		nce source. The 7 digit n "The DNA	uriders in Inis	column are G	endenk	ak Identifier (GI) numbers. "Dunham I. et al." refers to the publication	enutici)
			nce of human chromosom	e 22.° Dunha	m I. et al Na	ture (199	999) 402:489-495.	
80	Strand:	Indicate	es DNA strand from which	h exons were	predicted.	•	•	
-	Nt_position	: Indicati	es nucleatide positions of	predicted exc	ons.			
	Ohan	Pof	Strand	Nt_position				
	Pkey 405001	Ref 6015406		104646-1048	19			
85	403088	8954241		169894-17019		0806		
	400499	9796071	Minus	148495-14880	06			

	404815	5911819	Minus	64494-64691		
	400991	8095825	Pius	159197-159320		
	402233	7690102	Plus	90281-91477		
~	405516	9454624	Plus	112707-112876,113876-113854		
5	406137	9166422	Minus	30487-31058		
	405203	7230116	Plus	125295-125463		
	403568	7259739	Plus	39942-40150	A 4.4ma	
	405372	2078459		10148-10272,11205-11349,11436-1156	0,1178	
4.0	406519	3962489	Plus	34617-34928		
10	402260	3399665	Minus	113765-113910,115653-115765,116808	F11694	
	TABLE 1	1A:			_	
	Pkey:		nique Eos probese	t identifier number		
15	ExAcen:			number, Genbank accession number		
	Unigenel		nigene number	• • • • • • • • • • • • • • • • • • • •	•	
	Unigene	Tille: U	nigene gene title			
	Seq ID No: Sequence Identifica		equence Identificat	tion Number linking the information in Table 11A to t	he sequences in Table 12	
20				II. I Tul-	Con ID No	
20	Pkey	ExAccn	UnigenelD	Unigene Title	Seq ID No	
	450375	AA009647	Hs.8850	a disintegrin and metalloproteinase doma	Seq ID No.1 & 32	
	452838	U65011	Hs.30743	preferentially expressed antigen in mela	Seq ID No.2 & 33	
	429359	W00482	Hs.2399	matrix metalloproteinase 14 (membrane-in	Seq ID No.3 & 34	
25	428182		Hs.293317	ESTs, Weakly similar to GGC1_HUMAN G ANT	Seq ID No.4 & 35	
25	418478	U38945	Hs.1174	cyclin-dependent kinase inhibitor 2A (me	Seq ID No.5 & 36	
	418478	U38945	Hs.1174	cyclin-dependent kinase inhibitor 2A (me	Seq ID No.6 & 37	
	418478	U38945	Hs.1174	cyclin-dependent kinase inhibitor 2A (me	Seq ID No.7 & 38	
	418478	U38945	Hs.1174	cyclin-dependent kinase inhibitor 2A (me	Seq ID No.8 & 39	
20	418678	NM_001327		cancer/testis antigen (NY-ESO-1)	Seq ID No.9 & 40	
30	418678	NM_001327	Hs.167379	cancer/testis antigen (NY-ESO-1)	Seq ID No.10 & 41	
	404977	1100000	11 400004	Insulin-like growth factor 2 (somatomedi	Seq ID No.11 & 42	
	450701	H39960	Hs.409224	hypothetical protein XP_098151 (leucine-	Seq ID No.12 & 43 Seq ID No.13 & 44	
	406687	M31126	Hs.396790	matrix metalloproteinase 11 (stromelysin		
35	415989	Al267700	Hs.4288	ESTs	Seq ID No.14 Seq ID No.15 & 45	
22	449048	Z45051	Hs.22920	similar to S68401 (cattle) glucose induc	Seq ID No. 16 & 46	
	416658		Hs.79432	fibrillin 2 (congenital contractural ara	Seq ID No.17 & 47	
	411789		Hs.72157	Adlican	Seq ID No.18 & 48	
	417866		Hs.82772	collagen, type XI, alpha 1 collagen, type II, alpha 1 (primary oste	Seq ID No.19 & 49	
40	417153		Hs.81343		Seq ID No.20 & 50	
40	426300		Hs.194693	delta-like homolog (Drosophila) a disintegrin-like and metalloprotease w	Seq ID No.21 & 51	
	445417		Hs.12680	Homo sapiens pannexin 3 (PANX3)	Seq ID No.22 & 52	
	429329		Hs.99235 Hs.2799	cartilage linking protein 1	Seq ID No.23 & 53	
	428305			collagen, type XI, alpha 2	Seq ID No.24 & 54	
45	422871		Hs.121509 Hs.407951	Homo saplens mRNA; cDNA DKFZp566E183 (fr	Seq ID No.25 & 55	
40	441636 418399		Hs.301989	hypothetical protein FLJ12442	Seq ID No.26 & 56	
•	418140		Hs.83551	microfibrillar-associated protein 2	Seq ID No.27 & 57	
			Hs.83551	microfibrillar-associated protein 2	Seq ID No.28 & 58	
	418140		Hs.97266	protocadherin 18	Seq ID No.29 & 59	
50	420376		Hs.76228	amplified in osteosarcoma	Seq ID No.30 & 60	
50	414477 457869	U41635 AU077186	Hs.108885	Homo sapiens, alpha-1 (VI) collagen	Seq ID No.31 & 61	
	401003	AUUT 100	115,100000	Honto sapieto, alpha-1 (41) consgen	00412 110,01 4 01	
	TABLE	11C:			•	
	Pkey:		Inique number cor	responding to an Eos probeset		
55	Ref:		Sequence source.	The 7 digit numbers in this column are Genbank Ide	entifier (GI) numbers. "Dunham I. et al." refers to the publication entitled	
	"The DNA					
	sequence of human chromosome 22. Dunham I. et al., Nature (1999) 402:489-495.					
	Strand: Indicates DNA strand from which exons were predicted.					
<i>c</i> c	Nt_posit	lion: I	ndicates nucleotid	e positions of predicted exons.		
60						
•	Pkey	Ref	Strand	Nt_position		
		404977	3738341	Minus 43081-43229	•	

It is understood that the examples described above in no way serve to limit the true scope of this invention to specific embodiments, but rather are presented for illustrative purposes. All publications, sequences of accession numbers, and patent applications cited in this specification are herein incorporated by reference as if each individual publication or patent application were specifically and individually indicated to be incorporated by reference.

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WHAT IS CLAIMED IS:

1	A method of detecting soft tissue sarcoma	COMpresing
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- a. obtaining a first soft tissue sample from an individual and a normal soft
 tissue sample from the same individual or from a different individual;
- b. determining the expression of a gene of Tables 1A-11C in the first soft tissue sample and the normal soft tissue sample; and
- comparing the expression of said gene in the first soft tissue sample to
 expression of said gene in the normal soft tissue sample;

wherein a higher level of protein expression in the first soft tissue sample indicates the presence of soft tissue sarcoma.

- 2. The method of Claim 1, wherein said expression is measured using a labeled nucleic acid probe.
- 3. The method of Claim 1, wherein said first soft tissue sample and said normal soft tissue sample comprises isolated nucleic acids.
- 4. The method of Claim 3, wherein the isolated nucleic acids are amplified.
 - 5. The method of Claim 3, wherein said isolated nucleic acids are mRNA.
- 6. The method of Claim 1, wherein said first soft tissue sample and said normal soft tissue sample comprises isolated polypeptides or proteins.
 - 7. The method of Claim 6, wherein said protein expression is evaluated using antibodies.
- 30 8. The method of Claim 1, wherein said expression is measured utilizing a biochip.
 - 9. The method of Claim 8, wherein said biochip comprises nucleic acids complementary to the gene of Tables 1A-11C.

10. The method of Claim 8, wherein said biochip comprises antibodies capable of binding a polypeptide or protein encoded by the gene of Tables 1A-11C.

- 5 11. An antibody that specifically binds a polypeptide or protein encoded by a gene of Tables 1A-11C.
 - 12. The antibody of Claim 11, wherein the antibody is a humanized antibody.

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- 13. The antibody of Claim 11, wherein the antibody is conjugated to an effector moiety.
- 14. The antibody of Claim 13, wherein the effector moiety is a labeling moiety or a therapeutic moiety.
 - 15. A method for treating an individual with soft tissue sarcoma comprising administering an antibody of Claim 13.
- 20 16. A method for determining the prognosis of a human individual with soft tissue sarcoma cancer comprising determining the expression of a gene of Tables 1A-11C in a soft tissue sample of said human individual at different disease stages, wherein the expression of the gene at different disease stages is used to determine the prognosis of the human individual.

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- 17. A method for generating an immune response in an individual to inhibit soft tissue sarcoma cancer comprising:
 - a. purifying a polypeptide encoded by a gene of Tables 1A-11C; and
 - b. administering said polypeptide of (a) to an individual.

- 18. A method for generating an immune response in an individual to inhibit soft tissue sarcoma cancer comprising:
 - a. purifying a nucleic acid of Tables 1A-11C; and
 - b. administering said nucleic acid of (a) to an individual.

19. A method for generating a marker for detecting soft tissue sarcoma in a pathological assay, comprising:

- a. purifying a polypeptide encoded by a gene of Tables 1A-11C;
- 5 b. generating a binding partner to the polypeptide of (a); and
 - c. labeling the binding partner.
 - 20. The method of Claim 19, wherein the binding partner is an antibody.
- 10 21. A method for screening for an agent capable of binding to a polypeptide encoded by a gene of Tables 1A-11C comprising:
 - a. purifying a polypeptide encoded by a gene of Tables 1A-11C;
 - b. combining said polypeptide with a plurality of labeled agents;
 - c. capturing said labeled agent(s) bound to the polypeptide of (a)
- d. identifying the captured agent(s) of (d).
 - 22. The method of Claim 21, wherein said capturing utilizes an antibody to the polypeptide of (a).
- 20 23. A method for screening for an agent capable of binding to a nucleic acid of Tables 1A-11C comprising:
 - a. purifying a nucleic acid of Tables 1A-11C;
 - b. combining said nucleic acid with a plurality of labeled agents;
 - c. capturing said labeled agent(s) bound to the labeled nucleic acid of (a);
- d. identifying the captured agent(s) of (c).

- 24. A method of screening for a compound that modulates the expression of a gene associated with soft tissue sarcoma comprising:
 - a. monitoring the expression level of a gene of Tables 1A-11C in a biological system expressing the gene of Tables 1A-11C;
 - b. administering a compound to said biological system;
 - c. comparing the expression of the gene of (a) prior to and after administering the compound;

wherein a change in expression level prior to and after administering the compound indicates that the compound is capable of modulating the expression of the gene.

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- 25. A method for detecting the presence of antibodies specific to soft tissue sarcoma, the method comprising:
 - a. obtaining a first soft tissue sample from an individual;
 - b. contacting said soft tissue sample with a polypeptide encoded by a nucleotide sequence of Tables 1A-11C:

detecting the binding of antibodies from the soft tissue sample to the polypeptide of (b).